

| APPLICATION | | REVISIONS | | | |
|-------------|---------|-----------|--------------------------------------|-----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1900064 | | A | CHANGE IN ACCORDANCE WITH CM 19-3536 | 21 JAN 64 | J J J |
| | | B | CHANGE IN ACCORDANCE WITH CM 19-3536 | 24 JAN 64 | J J J |
| | | C | CHANGE IN ACCORDANCE WITH CM 19-3536 | 29 JAN 64 | J J J |
| | | D | CHANGE IN ACCORDANCE WITH CM 19-3536 | 29 JAN 64 | J J J |
| | | E | CHANGE IN ACCORDANCE WITH CM 19-3761 | 2 FEB 64 | J J J |
| | | F | CHANGE IN ACCORDANCE WITH CM 19-4224 | 5 FEB 64 | J J J |
| | | G | CHANGE IN ACCORDANCE WITH CM 19-4224 | 10 FEB 64 | J J J |
| | | H | CHANGE IN ACCORDANCE WITH CM 19-4224 | 15 FEB 64 | J J J |
| | | J | CHANGE IN ACCORDANCE WITH CM 19-4515 | 18 FEB 64 | J J J |
| | | K | CHANGE IN ACCORDANCE WITH CM 19-4515 | 23 FEB 64 | J J J |
| | | | | 28 FEB 64 | J J J |
| | | | | 1 MAR 64 | J J J |
| | | | | 1 APR 64 | J J J |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05834 DATE 11/7/64

REV: 19-3536, 19-3761, 19-4224, 19-4515, 19-4516, 19-4517, 19-4518, 19-4519, 19-4520, 19-4521, 19-4522, 19-4523, 19-4524, 19-4525, 19-4526, 19-4527, 19-4528, 19-4529, 19-4530, 19-4531, 19-4532, 19-4533, 19-4534, 19-4535, 19-4536, 19-4537, 19-4538, 19-4539, 19-4540, 19-4541, 19-4542, 19-4543, 19-4544, 19-4545, 19-4546, 19-4547, 19-4548, 19-4549, 19-4550, 19-4551, 19-4552, 19-4553, 19-4554, 19-4555, 19-4556, 19-4557, 19-4558, 19-4559, 19-4560, 19-4561, 19-4562, 19-4563, 19-4564, 19-4565, 19-4566, 19-4567, 19-4568, 19-4569, 19-4570, 19-4571, 19-4572, 19-4573, 19-4574, 19-4575, 19-4576, 19-4577, 19-4578, 19-4579, 19-4580, 19-4581, 19-4582, 19-4583, 19-4584, 19-4585, 19-4586, 19-4587, 19-4588, 19-4589, 19-4590, 19-4591, 19-4592, 19-4593, 19-4594, 19-4595, 19-4596, 19-4597, 19-4598, 19-4599, 19-4600, 19-4601, 19-4602, 19-4603, 19-4604, 19-4605, 19-4606, 19-4607, 19-4608, 19-4609, 19-4610, 19-4611, 19-4612, 19-4613, 19-4614, 19-4615, 19-4616, 19-4617, 19-4618, 19-4619, 19-4620, 19-4621, 19-4622, 19-4623, 19-4624, 19-4625, 19-4626, 19-4627, 19-4628, 19-4629, 19-4630, 19-4631, 19-4632, 19-4633, 19-4634, 19-4635, 19-4636, 19-4637, 19-4638, 19-4639, 19-4640, 19-4641, 19-4642, 19-4643, 19-4644, 19-4645, 19-4646, 19-4647, 19-4648, 19-4649, 19-4650, 19-4651, 19-4652, 19-4653, 19-4654, 19-4655, 19-4656, 19-4657, 19-4658, 19-4659, 19-4660, 19-4661, 19-4662, 19-4663, 19-4664, 19-4665, 19-4666, 19-4667, 19-4668, 19-4669, 19-4670, 19-4671, 19-4672, 19-4673, 19-4674, 19-4675, 19-4676, 19-4677, 19-4678, 19-4679, 19-4680, 19-4681, 19-4682, 19-4683, 19-4684, 19-4685, 19-4686, 19-4687, 19-4688, 19-4689, 19-4690, 19-4691, 19-4692, 19-4693, 19-4694, 19-4695, 19-4696, 19-4697, 19-4698, 19-4699, 19-4700, 19-4701, 19-4702, 19-4703, 19-4704, 19-4705, 19-4706, 19-4707, 19-4708, 19-4709, 19-4710, 19-4711, 19-4712, 19-4713, 19-4714, 19-4715, 19-4716, 19-4717, 19-4718, 19-4719, 19-4720, 19-4721, 19-4722, 19-4723, 19-4724, 19-4725, 19-4726, 19-4727, 19-4728, 19-4729, 19-4730, 19-4731, 19-4732, 19-4733, 19-4734, 19-4735, 19-4736, 19-4737, 19-4738, 19-4739, 19-4740, 19-4741, 19-4742, 19-4743, 19-4744, 19-4745, 19-4746, 19-4747, 19-4748, 19-4749, 19-4750, 19-4751, 19-4752, 19-4753, 19-4754, 19-4755, 19-4756, 19-4757, 19-4758, 19-4759, 19-4760, 19-4761, 19-4762, 19-4763, 19-4764, 19-4765, 19-4766, 19-4767, 19-4768, 19-4769, 19-4770, 19-4771, 19-4772, 19-4773, 19-4774, 19-4775, 19-4776, 19-4777, 19-4778, 19-4779, 19-4780, 19-4781, 19-4782, 19-4783, 19-4784, 19-4785, 19-4786, 19-4787, 19-4788, 19-4789, 19-4790, 19-4791, 19-4792, 19-4793, 19-4794, 19-4795, 19-4796, 19-4797, 19-4798, 19-4799, 19-4800, 19-4801, 19-4802, 19-4803, 19-4804, 19-4805, 19-4806, 19-4807, 19-4808, 19-4809, 19-4810, 19-4811, 19-4812, 19-4813, 19-4814, 19-4815, 19-4816, 19-4817, 19-4818, 19-4819, 19-4820, 19-4821, 19-4822, 19-4823, 19-4824, 19-4825, 19-4826, 19-4827, 19-4828, 19-4829, 19-4830, 19-4831, 19-4832, 19-4833, 19-4834, 19-4835, 19-4836, 19-4837, 19-4838, 19-4839, 19-4840, 19-4841, 19-4842, 19-4843, 19-4844, 19-4845, 19-4846, 19-4847, 19-4848, 19-4849, 19-4850, 19-4851, 19-4852, 19-4853, 19-4854, 19-4855, 19-4856, 19-4857, 19-4858,

| REVISIONS | | | DATE | APPROVAL |
|-----------|---|-----------|----------|----------|
| SYM | DESCRIPTION | DATE | APPROVAL | |
| L | CHANGE IN ACCORDANCE WITH CM 194897 PER TORR 09346 | 20 MAR 64 | JJ DLF | |
| M | CHANGE IN ACCORDANCE WITH CA 195274 | 20 MAR 64 | JJ DLF | |
| N | CHANGE IN ACCORDANCE WITH CM 195285 | 20 MAR 64 | JJ DLF | |
| P | CHANGE IN ACCORDANCE WITH CM 195283 PER TORR 09347 | 20 MAR 64 | JJ DLF | |
| R | CHANGE IN ACCORDANCE WITH CM 195368 PER TORR 09348 | 20 MAR 64 | JJ DLF | |
| S | CHANGE IN ACCORDANCE WITH CM 195306 | 20 MAR 64 | JJ DLF | |
| T | CHANGE IN ACCORDANCE WITH CM 195503 PER TORR 09349 | 20 MAR 64 | JJ DLF | |
| U | CHANGE IN ACCORDANCE WITH CM 195602 PER TORR 09350 | 20 MAR 64 | JJ DLF | |
| V | CHANGE IN ACCORDANCE WITH CM 195641 | 20 MAR 64 | JJ DLF | |
| W | CHANGE IN ACCORDANCE WITH CM 200707 PER TORR 09351 | 20 MAR 64 | JJ DLF | |
| Y | CHANGE IN ACCORDANCE WITH CM 195808 PER TORR 09352 | 20 MAR 64 | JJ DLF | |
| Z | CHANGE IN ACCORDANCE WITH CM 195869 PER TORR 09353 | 20 MAR 64 | JJ DLF | |
| AA | CHANGE IN ACCORDANCE WITH CM 200737 PER TORR 09354 | 20 MAR 64 | JJ DLF | |
| AB | CHANGE IN ACCORDANCE WITH CM 195976 PER TORR 09355 | 20 MAR 64 | JJ DLF | |
| AC | CHANGE IN ACCORDANCE WITH CM 196321 PER TORR 09356 | 20 MAR 64 | JJ DLF | |
| AD | CHANGE IN ACCORDANCE WITH CM 200747 PER TORR 09357 | 20 MAR 64 | JJ DLF | |
| AE | CHANGE IN ACCORDANCE WITH CM 197003 PER TORR 10228 | 20 MAR 64 | MCX | |
| AF | CHANGE IN ACCORDANCE WITH CM 197004 PER TORR 10693 | 20 MAR 64 | JJ DLF | |
| AG | CHANGE IN ACCORDANCE WITH CA 197017 PER TORR 10694 | 20 MAR 64 | MCX | |
| AH | CHANGE IN ACCORDANCE WITH CM 197067 PER TORR 10695 | 20 MAR 64 | JJ DLF | |
| AJ | CHANGE IN ACCORDANCE WITH CM 197490 | 20 MAR 64 | JJ DLF | |

MANIFEST

SPACED ACT CENTER

HOUSTON, TEXAS

REVISION

AR

NASA DRAWING NO.

1900943

SHEET 1A OF 183

| REVISIONS | | | | NASA DRAWING NO. | |
|-----------|---|--------------|-----------|------------------|-----------------|
| SYM | DESCRIPTION | DATE | APPROVAL | REVISION | SHEET 1B OF 183 |
| AK | CHANGE IN ACCORDANCE WITH CM 197686 | 15 JUN 64 | JWP FK | | |
| AL | CHANGE IN ACCORDANCE WITH CM 197687 | 17 JUN 64 | JWP FK | | |
| AM | CHANGE IN ACCORDANCE WITH CM 197966 | 17 JUN 64 | JWP FK | | |
| AN | CHANGE IN ACCORDANCE WITH CM 198197 | 18 JUN 64 | JWP FK | | |
| AP | CHANGE IN ACCORDANCE WITH CM 198676 PER TORR | 30 JUL 64 | JWP AU | | |
| AR | CHANGE IN ACCORDANCE WITH CM 198784 TORR 12901 | 10 AUG 64 | JWP AU | | |
| AS | CHANGE IN ACCORDANCE WITH CM 199049 TORR 12902 | 11 AUG 64 | JWP AU | | |
| AT | CHANGE IN ACCORDANCE WITH CM 199405 TORR 12903 | 28 AUG 64 | JWP AU | | |
| AU | CHANGE IN ACCORDANCE WITH CM 199406 TORR 12412 | 9 SEP 64 | JWP AU | | |

[illegible]

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------------|--|-----------------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | CIRCUIT POINT | | CIRCUIT POINT | |
| NUMBER | | ITEM NO. | | ITEM NO. | |
| B 899 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 899A | 41 | SHLD B 899 | 25N | TB17- 46CD | 16N 107 |
| B 899B | 41 | P15-N* | 25N | SHLD B 899 | 25N |
| B 899E | | TB17- 46AB | 16N 107 | P15-M* | 25N |
| B 900 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 900A | 41 | SHLD B 900 | 25N | TB17- 45CD | 16N 107 |
| B 900B | 41 | P15-K* | 25N | SHLD B 900 | 25N |
| B 900E | | TB17- 45AB | 16N 107 | P15-J* | 25N |
| B 901 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 901A | 41 | SHLD B 901 | 25N | TB17- 44CD | 16N 107 |
| B 901B | 41 | P15-P* | 25N | SHLD B 901 | 25N |
| B 901E | | TB17- 44AB | 16N 107 | P15-O* | 25N |
| B 902 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 902A | 41 | SHLD B 902 | 25N | P14-T | 25N |
| B 902B | 41 | TB17- 43CD | 16N 107 | SHLD B 902 | 25N |
| B 902E | | P14-S | 25N | TB17- 43AB | 16N 107 |
| B 903 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 903A | 41 | SHLD B 903 | 25N | P15-I* | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR SHEET 116 OF 188 |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------------|--|-----------------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | CIRCUIT POINT | | CIRCUIT POINT | |
| NUMBER | | ITEM NO. | | ITEM NO. | |
| B 903B | 41 | TB17- 42CD | 16N 107 | SHLD B 903 | 25N |
| B 903E | | P15-H* | 25N | TB17- 42AB | 16N 107 |
| B 904 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 904A | 41 | SHLD B 904 | 25N | P15-V | 25N |
| B 904B | 41 | TB17- 41CD | 16N 107 | SHLD B 904 | 25N |
| B 904E | | P15-U | 25N | TB17- 41AB | 16N 107 |
| B 905 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 905A | 41 | SHLD B 905 | 25N | P15-G* | 25N |
| B 905B | 41 | TB17- 40CD | 16N 107 | SHLD B 905 | 25N |
| B 905E | | P15-F* | 25N | TB17- 40AB | 16N 107 |
| B 906 | 65 | 52 | 23 90 91 7 | 225 | 200 86 87 856 |
| B 906B | 41 | P17-B* | 25N | SHLD B 906 | 25N |
| B 906E | | P 7-C1 | 11N 89 | P17-A* | 25N |
| B 906X | | P 7-C2 | | SHLD B 906 | 25N |
| B 907 | 46 | 225 | 200 85 7 | 400 | 370 48 52 846 |
| B 907B | 41 | TB22- 88 | 16N 107 | SHLD B 907 | 25N |
| B 907L | | P10-C* | 25N | TB22- 86 | 16N 107 |
| B 907R | | P10-B* | 25N | TB22- 87 | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR SHEET 117 OF 188 |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------------|--|-----------------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | CIRCUIT POINT | | CIRCUIT POINT | |
| NUMBER | | ITEM NO. | | ITEM NO. | |
| B 908 | 46 | 225 | 200 85 7 | 400 | 370 48 52 846 |
| B 908B | 41 | TB22- 85 | 16N 107 | SHLD B 908 | 25N |
| B 908L | | P10-N* | 25N | TB22- 83 | 16N 107 |
| B 908R | | P10-M* | 25N | TB22- 84 | 16N 107 |
| B 909 | 46 | 225 | 200 85 7 | 400 | 370 48 52 846 |
| B 909B | 41 | TB22- 82 | 16N 107 | SHLD B 909 | 25N |
| B 909L | | P85-C* | 25N | TB22- 80 | 16N 107 |
| B 909R | | P85-B* | 25N | TB22- 81 | 16N 107 |
| B 910 | 07 | 225 | 200 120 | 225 | 200 117 118 856 |
| B 910B | 41 | TB22- 58 | 16N 107 | SHLD B 910 | 25N |
| B 910W | | J22-M* | 25N | TB22- 57AB | 16N 107 |
| B 911 | 42 | J22-N* | 25N | TB22- 57CD | 16N 107 |
| B 912 | 41 | P11-T* | 25N | TB25- 10 | 20N 111 |
| B 913 | 16 | J 3-BB | 25N | TB23- 15 | 20N 111 |
| B 914 | 42 | J22-C* | 25N | TB20- 81AB | 16N 107 |
| B 915 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 915A | 41 | SHLD B 915 | 25N | TB17- 37CD | 16N 107 |
| B 915B | 41 | P15-T | 25N | SHLD B 915 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR SHEET 118 OF 188 |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------------|--|-----------------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | CIRCUIT POINT | | CIRCUIT POINT | |
| NUMBER | | ITEM NO. | | ITEM NO. | |
| B 915E | | TB17- 37AB | 16N 107 | P15-S | 25N |
| B 916 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 916A | 41 | SHLD B 916 | 25N | TB17- 36CD | 16N 107 |
| B 916B | 41 | P15-P | 25N | SHLD B 916 | 25N |
| B 916E | | TB17- 36AB | 16N 107 | P15-R | 25N |
| B 917 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 917A | 41 | SHLD B 917 | 25N | TB17- 35CD | 16N 107 |
| B 917B | 41 | P15-D | 25N | SHLD B 917 | 25N |
| B 917E | | TB17- 35AB | 16N 107 | P15-E | 25N |
| B 918 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 918A | 41 | SHLD B 918 | 25N | TB17- 34CD | 16N 107 |
| B 918B | 41 | P15-H | 25N | SHLD B 918 | 25N |
| B 918E | | TB17- 34AB | 16N 107 | P15-J | 25N |
| B 919 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| B 919A | 41 | SHLD B 919 | 25N | TB17- 33CD | 16N 107 |
| B 919B | 41 | P15-B | 25N | SHLD B 919 | 25N |
| B 919E | | TB17- 33AB | 16N 107 | P15-C | 25N |
| B 920 | 65 | 225 | 200 86 87 856 | 225 | 200 86 87 856 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR SHEET 119 OF 188 |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---|---|---------|---------|----------------|---------|--|
| PENMANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENMANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENMANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION PER ND1002019. | | | | | | |
| 5 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 6 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 1.2 INCHES. | | | | | | |
| 7 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 8 | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 9 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| 10 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 11 | LACE HARNESS USING ITEM 180 | | | | | | |
| 12 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER ND1002019 (ES-267). | | | | | | |
| 13 | SOLDER PER MIL-STD-440 USING ITEMS 181 AND 182 | | | | | | |
| 14 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE-NONE | REV LTR | AR | SHEET 3 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---|---|---------|---------|----------------|---------|--|
| PENMANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 15 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | | | | | |
| 16 | BREAKOUTS OF INDIVIDUAL OR GROUPS OF CONDUCTORS ARE MINIMUM CONFIGURATION. | | | | | | |
| 17 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 18 | SELECT AS REQUIRED. | | | | | | |
| 19 | FILL THE SPACE BETWEEN WIRE AND GROMMET USING A SUFFICIENT AMOUNT OF ITEM 156 TO MAKE ASSEMBLY SECURE IN THE CLAMP PRIOR TO THE CLAMP HALVES SEATING. SEE TYPICAL VIEW AD-AD SHOWING ASSEMBLY OF GROMMET AND ITEM 156. | | | | | | |
| 20 | THE FOLLOWING CONDUCTORS ARE TO BE TWISTED TOGETHER IN ACCORDANCE WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIA. B36K, B36L, B36R, B36Y | | | | | | |
| 21 | DELETED | | | | | | |
| 22 | MARK ITEMS 58 AND 176 PER ND1002019, COLOR BLACK, HEIGHT AS SHOWN IN VIEWS X-X AND Y-Y. MARK WITH HARNESS PLUG DESIGNATION AND MATING DRAWER RECEPTACLE SYMBOL. FOR ITEM 58 SEE TABLE 2 AND VIEW X-X. FOR ITEM 176 SEE TABLE 3 AND VIEW Y-Y. SEE NOTE 24 FOR FASTENING. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE-NONE | REV LTR | AR | SHEET 4 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---|--|---------|---------|----------------|---------|--|
| PENMANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 23 | TUBING SHALL EXTEND INTO FRAME CLAMP AND 1 INCH BEYOND AT ONE END. THE OTHER END SHALL TERMINATE AT THE FIRST SEPARATION IN THE BUNDLE. IF ONLY A SINGLE CABLE EXISTS, TUBING SHALL EXTEND INTO FRAME CLAMP AND 1 INCH BEYOND AT ONE END. THE OTHER END SHALL TERMINATE 3 INCHES FROM THE STRAIN RELIEF CLAMP OF THE CONNECTOR. | | | | | | |
| 24 | FASTEN ITEMS 58 AND 176 WITH ITEM 180. WRAP BAND TO CONFORM TO THE HARNESS CONFIGURATION | | | | | | |
| 25 | TUBING SHALL EXTEND WITHIN 1 INCH OF BREAKOUT ON ONE END AND TERMINATE 3 INCHES FROM THE STRAIN RELIEF CLAMP OF THE CONNECTOR AT THE OTHER END. | | | | | | |
| 26 | MARK BAND WITH AC SPARK PLUG ABBREVIATION ACSE AND IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). SERIALIZE PER ND1002023, CHARACTERS .12 HIGH, COLOR BLACK PER ND1002019. SEE NOTE 24 FOR FASTENING. | | | | | | |
| | | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. | | | | | |
| | | A - FROM END SHIELD | | | | | |
| | | B - TO END SHIELD | | | | | |
| | | E - GRAY | | | | | |
| | | K - WHITE WITH LETTER K, OR WHITE WITH BLACK TRACER | | | | | |
| | | L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER | | | | | |
| | | R - WHITE WITH LETTER R, OR WHITE WITH RED TRACER | | | | | |
| | | W - WHITE OR WHITE WITH LETTER W | | | | | |
| | | X - COAX OUTER CONDUCTOR | | | | | |
| | | Y - WHITE WITH LETTER Y, OR WHITE WITH YELLOW TRACER | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE-NONE | REV LTR | AR | SHEET 5 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---------------|--|---------|---------|----------------|---------|--|
| PENMANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | |
| | | TOLERANCE | | | | | |
| | | WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | | | |
| | | UNDER 1 INCH +.06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | |
| | | 1 INCH TO 6 INCHES +.50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | | | |
| | | 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | |
| | | OVER 6 FEET +2.00-.00 | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE-NONE | REV LTR | AR | SHEET 6 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|----------|------|-------------------|---------------|--|--|---------|---------|
| PENNYANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900351-011 | HARNESS FRAME MECHANICAL ASSY. | | | |
| | 2 | 1 | 1900943-002 | WIRE, ND1002181 TYPE 2 CLASS 1 T2 16AWG WHT. WITH LETTER L. WHT. WITH LETTER R 50 FT. TOTAL LENGTH | | | |
| | 3 | | | DELETED (1900943-003) | | | |
| | 4 | 1 | MS3106A18-1P | (1897084-010) CONNECTOR PLUG ELECTRICAL | | | |
| 17 | 5 | 7 | 1015922-001 | CONNECTOR PLUG ELECTRICAL | | | |
| | 7 | 1 | 1900943-007 | WIRE, ND1002181 TYPE 1 CLASS 4 22AWG WHT. WITH WHT. JACKET 312 FT. TOTAL LENGTH | | | |
| | 8 | 1 | 1900943-008 | WIRE, ND1002181 TYPE 2 CLASS 1 T2 22AWG WHT. WITH LETTER L. WHT. WITH LETTER R 60 FT. TOTAL LENGTH | | | |
| | 9 | | | DELETED (1900943-009) | | | |
| | 10 | 1 | MS3126F12-10P | (1897038-100) CONNECTOR PLUG, ELECTRICAL | | | |
| | 11 | 1 | MS3126F12-10S | (1897039-100) CONNECTOR PLUG, ELECTRICAL | | | |
| | 12 | 1 | 1900943-012 | WIRE, ND1002181 TYPE 2 CLASS 1 T2 24AWG WHT. WITH LETTER L. WHT. WITH LETTER R 60 FT. TOTAL LENGTH | | | |
| | 13 | 2 | MS3126F14-19S | (1897040-190) CONNECTOR PLUG, ELECTRICAL | | | |
| | 15 | 10 | MS3126F16-8S | (1897042-080) CONNECTOR PLUG, ELECTRICAL | | | |
| | 16 | 1 | 1900943-016 | WIRE, ND1002181 TYPE 1 CLASS 1 20AWG WHT. 500 FT. TOTAL LENGTH | | | |
| | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| | | | | SCALE-NONE | | REV LTR | AR |
| | | | | SHEET 7 OF 188 | | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|------|-------------------|----------------|--|--|---------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 17 | 2 | MS3126F20-16P | (1897043-160) CONNECTOR PLUG, ELECTRICAL | | | |
| | 18 | 1 | MS3126F20-41P | (1897043-410) CONNECTOR PLUG, ELECTRICAL | | | |
| | 19 | 1 | MS3126F20-41S | (1897044-410) CONNECTOR PLUG, ELECTRICAL | | | |
| | 20 | 1 | MS3126F12-10SW | (1897039-101) CONNECTOR PLUG, ELECTRICAL | | | |
| | 21 | 1 | MS3126F16-8SW | (1897042-081) CONNECTOR PLUG, ELECTRICAL | | | |
| | 22 | 2 | MS3126F22-55P | (1897045-550) CONNECTOR PLUG, ELECTRICAL | | | |
| | 23 | 1 | MS3126F22-55PW | (1897045-551) CONNECTOR PLUG, ELECTRICAL | | | |
| | 24 | 1 | MS3126F22-55PX | (1897045-552) CONNECTOR PLUG, ELECTRICAL | | | |
| | 26 | 10 | MS3126F24-61S | (1897048-610) CONNECTOR PLUG, ELECTRICAL | | | |
| | 27 | 8 | MS3126F24-61SW | (1897048-611) CONNECTOR PLUG, ELECTRICAL | | | |
| | 28 | 8 | MS3126F24-61SX | (1897048-612) CONNECTOR PLUG, ELECTRICAL | | | |
| | 29 | 2 | MS3126F24-61SY | (1897048-613) CONNECTOR PLUG, ELECTRICAL | | | |
| | 30 | 2 | MS3126F24-61SZ | (1897048-614) CONNECTOR PLUG, ELECTRICAL | | | |
| | 32 | 13 | 1900448-011 | CABLE CLAMP BRACKET ASSY | | | |
| 18 | 33 | 107 | MS21919-WDG2 | THRU MS21919-WDG32 (1897073-202 THRU 1897073-224) CLAMP-LOOP TYPE, CUSHIONED | | | |
| | 34 | | DELETED | | | | |
| | 35 | | DELETED | | | | |
| | 36 | | DELETED | | | | |

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|--|---------|--------|----------------|--|
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 | |
| SCALE-NONE | REV LTR | AR | SHEET 8 OF 188 | |

| GMI | | WIRING HARNESS B | | AU | | 1900943 | |
|----------|------|-------------------|-------------|--|--|-----------|---------|
| PENNYANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 37 | | | DELETED | | | |
| 17 | 38 | 22 | 1006783- 44 | SCREW, BUTTON HEAD | | | |
| | 39 | | | DELETED (1897082-113) | | | |
| | 40 | 1 | 1900943-040 | WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG WHT. 100 FT. TOTAL LENGTH | | | |
| | 41 | 1 | 1900943-041 | WIRE, ND1002181 TYPE 1, CLASS 1, 22AWG WHT. 3012 FT. TOTAL LENGTH | | | |
| | 42 | 1 | 1900943-042 | WIRE, ND1002181 TYPE 1, CLASS 1, 24AWG WHT. 10,101 FT. TOTAL LENGTH | | | |
| | 44 | 1 | 1900943-044 | WIRE, ND1002181 TYPE 2, CLASS 4, 16AWG WHT. JACKET, WHT/BLU, WHT/RED 100 FT. TOTAL LENGTH | | | |
| | 45 | 1 | 1900943-045 | WIRE, ND1002181 TYPE 2, CLASS 4, 20AWG WHT. JACKET, WHT/BLU, WHT/RED 400 FT. TOTAL LENGTH | | | |
| | 46 | 1 | 1900943-046 | WIRE, ND1002181 TYPE 2, CLASS 4, 24AWG WHT. JACKET, WHT/BLU, WHT/RED 3013 FT. TOTAL LENGTH | | | |
| | 47 | 1 | 1900943-047 | WIRE, ND1002181 TYPE 2, CLASS 4, 22AWG WHT. JACKET, WHT/BLU, WHT/RED 500 FT. TOTAL LENGTH | | | |
| 17 | 48 | 277 | 1000243- 8 | FERRULE, ELEC. COND. | | | |
| 17 | 49 | 2 | 1000243- 10 | FERRULE, ELEC. COND. | | | |
| 17 | 50 | 26 | 1000243- 14 | FERRULE, ELEC. COND. | | | |
| | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| | | | | SCALE-NONE | | REV LTR | AU |
| | | | | SHEET 9 OF 188 | | | |

GMI

WIRING HARNESS B

-AU

1900943

PENNAANT

LIST OF MATERIALS

| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
|------|------|-------------------|------------------------------|---|
| 17 | 51 | 12 | 1000243- 23 | FERRULE, ELEC. COND. |
| 17 | 52 | 12 277 | 1000242- 8 | FERRULE, ELEC. COND. |
| 17 | 53 | 4 | 1000242- 11 | FERRULE, ELEC. COND. |
| 17 | 54 | 26 | 1000242- 12 | FERRULE, ELEC. COND. |
| 17 | 55 | 12 | 1000242- 18 | FERRULE, ELEC. COND. |
| | 56 | 50 | MS35338- 81 | LOCKWASHER |
| | 57 | | | DELETED (1897006-017) |
| 22 | 58 | 54 | 1016128-011 | BAND, IDENTIFICATION |
| | 59 | 1 | MS3126F22-55SY (1897046-553) | CONNECTOR PLUG, ELECTRICAL |
| | 65 | 1 | 1900943-065 | COAX-MIL-C-17 RG188/U 1500 FT. TOTAL LENGTH |
| | 66 | 1 | MS3126F20-16S (1897044-160) | CONNECTOR PLUG, ELECTRICAL |
| | 67 | | | DELETED (1897044-411) |
| | 68 | 1 | MS3126F10-6S (1897026-060) | CONNECTOR PLUG, ELECTRICAL |
| 17 | 69 | 4 | 1015907-100 | CONNECTOR PLUG, ELECTRICAL |
| 17 | 70 | 3 | 1015907-101 | CONNECTOR PLUG, ELECTRICAL |
| 17 | 71 | 2 | 1015907-102 | CONNECTOR PLUG, ELECTRICAL |
| 17 | 72 | 1 | 1015907-103 | CONNECTOR PLUG, ELECTRICAL |
| 17 | 73 | 1 | 1015907-104 | CONNECTOR PLUG, ELECTRICAL |

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CENTER
HOUSTON, TEXAS

SIZE

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SCALE-NONE

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| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|---|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 77 1 | MS3127E24-61PY (1897055-613) | CONNECTOR, RECEPTACLE | |
| | 78 1 | MS3127E24-61PZ (1897055-614) | CONNECTOR, RECEPTACLE | |
| | 79 1 | MS3127E24-61S (1897056-610) | CONNECTOR, RECEPTACLE | |
| | 80 | | DELETED (1897056-611) | |
| | 81 | | DELETED (1897056-612) | |
| | 82 | | DELETED (1897056-613) | |
| 17 | 83 26 | 1010490-194 | INSULATION-SLEEVEING | |
| 17 | 84 347 | 1010490-196 | INSULATION-SLEEVEING | |
| 17 | 85 464 | 1010490-198 | INSULATION-SLEEVEING | |
| 17 | 86 168 | 1000243- 6 | FERRULE-ELECT. COND. | |
| 17 | 87 168 | 1000242- 5 | FERRULE-ELECT. COND. | |
| | 88 | | DELETED (1015905- 61) | |
| 17 | 89 80 | 1015908- 11 | CONTACT COAX PIN | |
| 17 | 90 80 | 1015908- 31 | BODY COAX OUTER FEMALE | |
| 17 | 91 80 | 1015908- 51 | RING COAX CONNECTOR | |
| | 92 | | DELETED (1010490-202) | |
| | 98 1 | 1900943-098 | WIRE, MD1002181 TYPE 3 CLASS 4 22AWG, WHT/BLU, WHT/RED, WHT/YEL WITH WHT. JACKET 500 FT. TOTAL LENGTH | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 11 OF 188 |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|-----------|---|---|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 99 1 | 1900943-099 | WIRE, MD1002181 TYPE 3 CLASS 4 20AWG, WHT/BLU, WHT/RED, WHT/YEL WITH WHT. JACKET 500 FT. TOTAL LENGTH | |
| 17 | 102 2 | 1000243- 15 | FERRULE, ELEC. | |
| 17 | 103 2 | 1000243- 11 | FERRULE, ELEC. | |
| 17 | 104 2 | 1000242- 16 | FERRULE, ELEC. | |
| 17 | 107 1230 | 1015966-001 | JACK-WIRE TIP (AWG 24-22) | |
| 17 | 108 21 | 1015966-003 | JACK-WIRE TIP (AWG 20) | |
| 17 | 111 10419 | 1015902- 3 | TERMINAL LUG-RING TONGUE, CRIMP | |
| | 112 1 | MS3127E22-55S (1897054-550) | CONNECTOR-RECEPTACLE, ELEC. | |
| | 116 | | DELETED (1015864-168) | |
| 17 | 117 17 | 1000243- 3 | FERRULE-ELEC. | |
| 17 | 118 17 | 1000243- 4 | FERRULE-ELEC. | |
| | 119 | | DELETED (1000243- 15) | |
| 17 | 120 58 | 1010490-200 | INSULATION SLEEVEING, ELEC. | |
| | 122 1 | MS3127E20-41SW (1897052-411) | CONNECTOR-RECEPTACLE | |
| | 126 1 | MS3127E22-55PX (1897053-552) | CONNECTOR-RECEPTACLE | |
| | 127 1 | MS3127E22-55SW (1897054-551) | CONNECTOR-RECEPTACLE | |
| 17 | 129 37 | 1016006-001 | SPLICE REDUCER | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 12 OF 188 |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|-----------------------|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| 17 | 130 16 | 1016006-002 | SPLICE REDUCER | |
| 17 | 131 25 | 1016006-003 | SPLICE REDUCER | |
| | 132 | | DELETED (1015902-008) | |
| | 133 | | DELETED | |
| | 141 1 | MS3126F24-61PZ (1897047-614) | CONNECTOR-PLUG ELEC. | |
| | 143 1 | MS3127E20-41PW (1897051-411) | CONNECTOR-RECEPTACLE | |
| | 144 1 | MS3127E14-15S (1897116-150) | CONNECTOR-RECEPTACLE | |
| | 145 1 | MS3127E22-55PY (1897053-553) | CONNECTOR-RECEPTACLE | |
| | 146 1 | MS3127E22-55PZ (1897053-554) | CONNECTOR-RECEPTACLE | |
| | 147 1 | MS3127E22-55SX (1897054-552) | CONNECTOR-RECEPTACLE | |
| | 148 1 | MS3127E22-55SY (1897054-553) | CONNECTOR-RECEPTACLE | |
| 17 | 149 2 | 1016282- 10 | GROMMET, CONNECTOR | |
| 17 | 150 3 | 1016282- 12 | GROMMET, CONNECTOR | |
| 17 | 151 2 | 1016282- 14 | GROMMET, CONNECTOR | |
| 17 | 152 12 | 1016282- 16 | GROMMET, CONNECTOR | |
| 17 | 153 5 | 1016282- 20 | GROMMET, CONNECTOR | |
| 17 | 154 22 | 1016282- 22 | GROMMET, CONNECTOR | |
| 17 | 155 31 | 1016282- 24 | GROMMET, CONNECTOR | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 13 OF 188 |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|---|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 156 77 | 1901390 | TAPE, FILLER | |
| 17 | 157 19 | 1016281-181 | SOCKET, CONTACT | |
| | 158 5 | MS35234-69 | SCREW, PAN HD, SLOTTED | |
| | 159 108 | 1897006- 19 | WASHER, FLAT | |
| | 160 5 | 1901464-004 | SPACER | |
| | 161 58 | 1896990-011 | NUT, SELF LOCKING | |
| 17 | 162 50 | 1006783-043 | SCREW, BUTTON HD | |
| | 163 2 | 1901464-002 | SPACER | |
| 17 | 164 2 | 1006783-048 | SCREW, BUTTON HD | |
| | 165 2 | 1900448-021 | CABLE CLAMP BRACKET ASSY | |
| 17 | 166 2 | 1016281-180 | PIN, CONTACT | |
| 17 | 167 31 | 1006783-045 | SCREW, BUTTON HD. | |
| | 168 1 | 1900943-100 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - .50 DIA - 12 FT TOTAL LENGTH | |
| | 169 1 | 1900943-101 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - .75 DIA - 13 FT TOTAL LENGTH | |
| | 170 1 | 1900943-102 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - .88 DIA - 7 FT TOTAL LENGTH | |
| | 171 1 | 1900943-103 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - 1.00 DIA - 16 FT TOTAL LENGTH | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 14 OF 188 |

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WIRING HARNESS B

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1900943

| LIST OF MATERIALS | | | |
|-------------------|----------|-------------|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | 172 1 | 1900943-104 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - 1.25 DIA - 20 FT TOTAL LENGTH |
| | 173 1 | 1900943-105 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - 1.50 DIA - 95 INCHES TOTAL LENGTH |
| 17 | 174 25 | 1010490-286 | INSULATION SLEEVING |
| 17 | 175 16 | 1010490-288 | INSULATION SLEEVING |
| 22 | 176 19 | 1015864-462 | INSULATION SLEEVING |
| | 177 | | DELETED (1900943-106) |
| | 178 1 | 1900943-107 | WIRE PER NO1002181, TYPE 1, CLASS 1, BANG, WHT, 20 FT. TOTAL LENGTH. |
| 17 | 179 7 | 1016048- 15 | TERMINAL LUG |
| | 180 AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2, BLK (ES-2732 NO. 18 AND 24) |
| | 181 AR | QQ-5-571 | SOLDER SN60 (ES-2175 ALLOY 1) |
| | 182 AR | QQ-5-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) |
| 17 | 183 1 | 1016048- 18 | TERMINAL LUG |

| | | |
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| MAHMOUD SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| SCALE: NONE | REV LTR | AR |
| SHEET 15 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|--------|----------------------|---------------|-----|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 3 | 41 | | E 22 | 25M | | TB27- 1 | 16M | 107 | | | | | | |
| B 4 | 41 | | E 22 | 25M | | TB27- 4 | 16M | 107 | | | | | | |
| B 5 | 41 | | E 22 | 25M | | TB27- 7 | 16M | 107 | | | | | | |
| B 6 | 41 | | E 22 | 25M | | TB27- 13 | 16M | 107 | | | | | | |
| B 7 | 41 | | E 16 | 25M | | TB19- 9 | 16M | 107 | | | | | | |
| B 8 | 41 | | E 16 | 25M | | TB19- 7 | 16M | 107 | | | | | | |
| B 9 | 41 | | E 16 | 25M | | TB19- 4 | 16M | 107 | | | | | | |
| B 10 | 41 | | E 16 | 25M | | TB19- 1 | 16M | 107 | | | | | | |
| B 11 | 44 | | | 225 | 200 85 | | | 300 | 270 | 51 | 55 | 836 | | |
| B 11B | 41 | | E 47 | 25M | | SHLD B 11 | 25M | | | | | | | |
| B 11L | | | P30-E | 25M | | TB14- 3 | 20M | 111 | | | | | | |
| B 11R | | | P30-D | 25M | | TB14- 1 | 20M | 111 | | | | | | |
| B 12 | 44 | | | 225 | 200 85 | | | 300 | 270 | 51 | 55 | 836 | | |
| B 12B | 41 | | E 57 | 25M | | SHLD B 12 | 25M | | | | | | | |
| B 12L | | | P18-E | 25M | | TB15- 3 | 20M | 111 | | | | | | |
| B 12R | | | P18-D | 25M | | TB15- 1 | 20M | 111 | | | | | | |
| B 13 | 45 | | | 225 | 200 84 | | | 300 | 270 | 84 | | 7 | | |
| B 13B | 41 | | E 50 | 25M | | SHLD B 13 | 25M | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 16 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|--------|----------------------|---------------|-----|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 13L | | | P37-F | 25M | | TB 2- 2 | 20M | 111 | | | | | | |
| B 13R | | | P37-G | 25M | | TB 2- 4 | 20M | 111 | | | | | | |
| B 14 | 44 | | | 225 | 200 85 | | | 300 | 270 | 51 | 55 | 836 | | |
| B 14B | 41 | | E 46 | 25M | | SHLD B 14 | 25M | | | | | | | |
| B 14L | | | P50-E | 25M | | TB11- 9 | 20M | 111 | | | | | | |
| B 14R | | | P50-D | 25M | | TB11- 7 | 20M | 111 | | | | | | |
| B 15 | 41 | | P34-U | 25M | | TB 7- 7 | 20M | 111 | | | | | | |
| B 16 | 40 | | P34-W | 25M | 157 | TB 7- 2 | 20M | 111 | | | | | | |
| B 17 | 40 | | P34-X | 25M | 157 | TB 7- 5 | 20M | 111 | | | | | | |
| B 18 | 41 | | P99-F | 25M | | TB 7- 10 | 20M | 111 | | | | | | |
| B 19 | 44 | | | 225 | 200 85 | | | 300 | 270 | 51 | 55 | 836 | | |
| B 19B | 41 | | E 43 | 25M | | SHLD B 19 | 25M | | | | | | | |
| B 19L | | | P38-E | 25M | | TB 3- 3 | 20M | 111 | | | | | | |
| B 19R | | | P38-D | 25M | | TB 3- 1 | 20M | 111 | | | | | | |
| B 20 | 41 | | E 18 | 25M | | TB18- 49 | 16M | 107 | | | | | | |
| B 21 | 41 | | E 18 | 25M | | TB18- 52 | 16M | 107 | | | | | | |
| B 22 | 41 | | E 18 | 25M | | TB18- 55 | 16M | 107 | | | | | | |
| B 23 | 41 | | E 18 | 25M | | TB18- 58 | 16M | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 17 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|-----|----------------------|---------------|-----|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 24 | 41 | | E 18 | 25M | | TB18- 61 | 16M | 107 | | | | | | |
| B 25 | 41 | | E 18 | 25M | | TB18- 64 | 16M | 107 | | | | | | |
| B 26 | 41 | | E 18 | 25M | | TB18- 67 | 16M | 107 | | | | | | |
| B 27 | 41 | | E 18 | 25M | | TB18- 70 | 16M | 107 | | | | | | |
| B 28 | 41 | | E 18 | 25M | | TB18- 73 | 16M | 107 | | | | | | |
| B 29 | 41 | | E 60 | 25M | | TB18- 1 | 16M | 107 | | | | | | |
| B 30 | 41 | | E 60 | 25M | | TB18- 3 | 16M | 107 | | | | | | |
| B 31 | 41 | | E 60 | 25M | | TB18- 6 | 16M | 107 | | | | | | |
| B 32 | 41 | | E 60 | 25M | | TB18- 9 | 16M | 107 | | | | | | |
| B 33 | 41 | | E 60 | 25M | | TB18- 12 | 16M | 107 | | | | | | |
| B 34 | 40 | | P24-EE | 25M | 157 | TB 1- 6 | 20M | 111 | | | | | | |
| B 35 | 40 | | P24-FF | 25M | 157 | TB 1- 9 | 20M | 111 | | | | | | |
| B 36 | | | | | 120 | | | 120 | | | | | | |
| B 36K | 41 | | P24-PP | 25M | | TB 2- 2 | 20M | 111 | | | | | | |
| B 36L | 41 | | P24-LL | 25M | | TB 1- 3 | 20M | 111 | | | | | | |
| B 36R | 41 | | P24-NM | 25M | | TB 1- 2 | 20M | 111 | | | | | | |
| B 36Y | 41 | | P24-NM | 25M | | TB 1- 4 | 20M | 111 | | | | | | |
| B 37 | 41 | | E 8 | 25M | | TB21- 27 | 16M | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 18 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|-----|----------------------|---------------|-----|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 38 | 41 | | E 8 | 25M | | TB21- 24 | 16M | 107 | | | | | | |
| B 39 | 41 | | E 8 | 25M | | TB21- 21 | 16M | 107 | | | | | | |
| B 40 | 41 | | E 8 | 25M | | TB21- 18 | 16M | 107 | | | | | | |
| B 41 | 41 | | E 8 | 25M | | TB21- 15 | 16M | 107 | | | | | | |
| B 42 | 41 | | E 8 | 25M | | TB21- 12 | 16M | 107 | | | | | | |
| B 43 | 41 | | E 8 | 25M | | TB21- 9 | 16M | 107 | | | | | | |
| B 44 | 41 | | E 8 | 25M | | TB21- 6 | 16M | 107 | | | | | | |
| B 45 | 41 | | E 8 | 25M | | TB21- 3 | 16M | 107 | | | | | | |
| B 46 | 41 | | TB22- 1 | 16M | 107 | E 2 | 25M | | | | | | | |
| B 47 | 41 | | E 2 | 25M | | TB22- 3 | 16M | 107 | | | | | | |
| B 48 | 41 | | E 2 | 25M | | TB22- 6 | 16M | 107 | | | | | | |
| B 49 | 41 | | E 2 | 25M | | TB22- 9 | 16M | 107 | | | | | | |
| B 50 | 41 | | E 2 | 25M | | TB22- 12 | 16M | 107 | | | | | | |
| B 51 | 41 | | E 2 | 25M | | TB22- 15 | 16M | 107 | | | | | | |
| B 52 | 41 | | E 2 | 25M | | TB22- 18 | 16M | 107 | | | | | | |
| B 53 | 41 | | E 2 | 25M | | TB22- 21 | 16M | 107 | | | | | | |
| B 54 | 41 | | E 2 | 25M | | TB22- 24 | 16M | 107 | | | | | | |
| B 55 | 41 | | E 9 | 25M | | TB20- 1 | 16M | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 19 OF 188 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|
| GHI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | |
| NUMBER | | | | | | | | | | ITEM NO. | | | | | | | | | | NUMBER | | | | | | | | | | ITEM NO. | | | | | | | | | |
| B 56 | | | | | | | | | | E 9 | | | | | | | | | | TB20- 3 | | | | | | | | | | 16N | | | | | | | | | |
| B 57 | | | | | | | | | | E 9 | | | | | | | | | | TB20- 6 | | | | | | | | | | 16N | | | | | | | | | |
| B 58 | | | | | | | | | | TB 9- 7 | | | | | | | | | | TB20- 9 | | | | | | | | | | 16N | | | | | | | | | |
| B 59 | | | | | | | | | | E 9 | | | | | | | | | | TB20- 12 | | | | | | | | | | 16N | | | | | | | | | |
| B 60 | | | | | | | | | | E 9 | | | | | | | | | | TB20- 15 | | | | | | | | | | 16N | | | | | | | | | |
| B 61 | | | | | | | | | | E 9 | | | | | | | | | | TB20- 18 | | | | | | | | | | 16N | | | | | | | | | |
| B 62 | | | | | | | | | | E 9 | | | | | | | | | | TB20- 21 | | | | | | | | | | 16N | | | | | | | | | |
| B 63 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 15 | | | | | | | | | | 16N | | | | | | | | | |
| B 64 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 18 | | | | | | | | | | 16N | | | | | | | | | |
| B 65 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 21 | | | | | | | | | | 16N | | | | | | | | | |
| B 66 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 24 | | | | | | | | | | 16N | | | | | | | | | |
| B 67 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 27 | | | | | | | | | | 16N | | | | | | | | | |
| B 68 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 30 | | | | | | | | | | 16N | | | | | | | | | |
| B 69 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 33 | | | | | | | | | | 16N | | | | | | | | | |
| B 70 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 36 | | | | | | | | | | 16N | | | | | | | | | |
| B 71 | | | | | | | | | | E 17 | | | | | | | | | | TB18- 39 | | | | | | | | | | 16N | | | | | | | | | |
| B 72 | | | | | | | | | | 225 200 83 | | | | | | | | | | 300 | | | | | | | | | | 270 51 95 836 | | | | | | | | | |
| B 72B | | | | | | | | | | E 52 | | | | | | | | | | SHLD B 72 | | | | | | | | | | 25N | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MAHED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | | | | | | | | | 1900943 | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | | SHEET 20 OF 188 | | | | | | | | | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|--|--|--|--|--|--|--|--|---|-----|----|--|--|--|--|--|--|--|--------------------|-----|-----|----|-----|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B 104 | 45 | | | | | | | | | 225 | 200 | 84 | | | | | | | | 225 | 200 | 50 | 54 | 845 | | | | | |
| B 104B | 41 | | | | | | | | | 25N | | | | | | | | | | SHLD B 104 | 25N | | | | | | | | |
| B 104L | | | | | | | | | | P21-A* | 25N | | | | | | | | | P23-C | 25N | | | | | | | | |
| B 104R | | | | | | | | | | P21-Z | 25N | | | | | | | | | P23-B | 25N | | | | | | | | |
| B 105 | 41 | | | | | | | | | E 8 | 25N | | | | | | | | | TB21- 1 | 16N | 107 | | | | | | | |
| B 106 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 24 | 16N | 107 | | | | | | | |
| B 107 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 27 | 16N | 107 | | | | | | | |
| B 108 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 30 | 16N | 107 | | | | | | | |
| B 109 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 33 | 16N | 107 | | | | | | | |
| B 110 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 36 | 16N | 107 | | | | | | | |
| B 111 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 39 | 16N | 107 | | | | | | | |
| B 112 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 49 | 16N | 107 | | | | | | | |
| B 113 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 52 | 16N | 107 | | | | | | | |
| B 114 | 41 | | | | | | | | | E 10 | 25N | | | | | | | | | TB20- 55 | 16N | 107 | | | | | | | |
| B 115 | 45 | | | | | | | | | 225 | 200 | 84 | | | | | | | | 300 | 270 | 50 | 54 | 845 | | | | | |
| B 115B | 41 | | | | | | | | | E 53 | 25N | | | | | | | | | SHLD B 115 | 25N | | | | | | | | |
| B 115L | | | | | | | | | | P21-C* | 25N | | | | | | | | | TB 5- 10 | 20N | 111 | | | | | | | |
| B 115R | | | | | | | | | | P21-B* | 25N | | | | | | | | | TB 5- 5 | 20N | 111 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE-NONE | | | | | | | | | | REV LTR AR | | | | | | | | | |
| SHEET 24 OF 188 | | | | | | | | | | 1900943 | | | | | | | | | | SHEET 24 OF 188 | | | | | | | | | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|--|--|--|--|--|--|--|--|---|-----|-----|--|--|--|--|--|--|--|--------------------|-----|-----|----|-----|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B 116 | 45 | | | | | | | | | 225 | 200 | 84 | | | | | | | | 300 | 270 | 50 | 54 | 845 | | | | | |
| B 116B | 41 | | | | | | | | | E 53 | 25N | | | | | | | | | SHLD B 116 | 25N | | | | | | | | |
| B 116L | | | | | | | | | | P21-E* | 25N | | | | | | | | | TB 5- 10 | 20N | 111 | | | | | | | |
| B 116R | | | | | | | | | | P21-D* | 25N | | | | | | | | | TB 5- 4 | 20N | 111 | | | | | | | |
| B 117 | 45 | | | | | | | | | 225 | 200 | 84 | | | | | | | | 300 | 270 | 84 | | | | | | | |
| B 117B | 41 | | | | | | | | | E 52 | 25N | | | | | | | | | SHLD B 117 | 25N | | | | | | | | |
| B 117L | | | | | | | | | | P22-P | 25N | | | | | | | | | TB 5- 6 | 20N | 111 | | | | | | | |
| B 117R | | | | | | | | | | P22-N | 25N | | | | | | | | | TB 5- 9 | 20N | 111 | | | | | | | |
| B 118 | 40 | | | | | | | | | P36-T | 25N | 157 | | | | | | | | TB 7- 3 | 20N | 111 | | | | | | | |
| B 119 | 42 | | | | | | | | | P31-MM | 25N | | | | | | | | | P99-C* | 25N | | | | | | | | |
| B 120 | 42 | | | | | | | | | P31-NM | 25N | | | | | | | | | P99-H* | 25N | | | | | | | | |
| B 121 | 42 | | | | | | | | | P31-V* | 25N | | | | | | | | | P99-D* | 25N | | | | | | | | |
| B 122 | 42 | | | | | | | | | P31-W* | 25N | | | | | | | | | P99-J* | 25N | | | | | | | | |
| B 123 | 42 | | | | | | | | | P31-WH | 25N | | | | | | | | | P99-E* | 25N | | | | | | | | |
| B 124 | 42 | | | | | | | | | P31-JJ | 25N | | | | | | | | | P99-I* | 25N | | | | | | | | |
| B 125 | 42 | | | | | | | | | P31-BB | 25N | | | | | | | | | P98-K | 25N | | | | | | | | |
| B 126 | 42 | | | | | | | | | P31-X* | 25N | | | | | | | | | P99-DD | 25N | | | | | | | | |
| B 127 | | | | | | | | | | DELETE | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE-NONE | | | | | | | | | | REV LTR AR | | | | | | | | | |
| SHEET 25 OF 188 | | | | | | | | | | 1900943 | | | | | | | | | | SHEET 25 OF 188 | | | | | | | | | |

| GMI | | WIRING HARNESS B | | | | | | | | | | | | | | AR | | 1900943 | | | | | | | | | | | | |
|--|----|---------------------|--|--------------------|--|-----|--|---|-------------|----------|--|-------|--|---|--|---------------------|--|-----------------|-------------|---------|--|---|--|----------|--|-------|--|-----|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | | | | | | | |
| ITEM NO. | | STEP WIRE OR JACKET | | CIRCUIT POINT | | T | | N | | ITEM NO. | | SPEC. | | NO. | | STEP WIRE OR JACKET | | CIRCUIT POINT | | T | | N | | ITEM NO. | | SPEC. | | NO. | | |
| B 128 | 42 | | | P31-Q* | | 25N | | | | | | | | | | P98-B | | 25N | | | | | | | | | | | | |
| B 129 | 42 | | | P31-D | | 25N | | | | | | | | | | P98-A | | 25N | | | | | | | | | | | | |
| B 130 | 42 | | | P31-J* | | 25N | | | | | | | | | | P34-W* | | 25N | | | | | | | | | | | | |
| B 131 | 42 | | | P31-H* | | 25N | | | | | | | | | | P34-P* | | 25N | | | | | | | | | | | | |
| B 132 | 42 | | | P31-G* | | 25N | | | | | | | | | | P34-T* | | 25N | | | | | | | | | | | | |
| B 133 | 42 | | | P31-A | | 25N | | | | | | | | | | P98-E* | | 25N | | | | | | | | | | | | |
| B 134 | 42 | | | P31-B* | | 25N | | | | | | | | | | P98-F* | | 25N | | | | | | | | | | | | |
| B 135 | 42 | | | P31-A* | | 25N | | | | | | | | | | P34-R* | | 25N | | | | | | | | | | | | |
| B 136 | 42 | | | P31-Z | | 25N | | | | | | | | | | P34-U* | | 25N | | | | | | | | | | | | |
| B 137 | 42 | | | P31-Y | | 25N | | | | | | | | | | P98-D* | | 25N | | | | | | | | | | | | |
| B 138 | 42 | | | P31-J | | 25N | | | | | | | | | | P34-X* | | 25N | | | | | | | | | | | | |
| B 139 | 42 | | | P31-T | | 25N | | | | | | | | | | P98-M | | 25N | | | | | | | | | | | | |
| B 140 | 42 | | | P31-S | | 25N | | | | | | | | | | P98-Y | | 25N | | | | | | | | | | | | |
| B 141 | 42 | | | P31-L | | 25N | | | | | | | | | | P98-X | | 25N | | | | | | | | | | | | |
| B 142 | 41 | | | P31-B | | 25N | | | | | | | | | | P98-Z | | 25N | | | | | | | | | | | | |
| B 143 | 42 | | | P31-W | | 25N | | | | | | | | | | P98-B* | | 25N | | | | | | | | | | | | |
| B 144 | 42 | | | P31-V | | 25N | | | | | | | | | | P98-A* | | 25N | | | | | | | | | | | | |
| B 145 | 42 | | | P31-F | | 25N | | | | | | | | | | P31-LL | | 25N | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900943 | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | | | REV LTR | | AR | | SHEET 26 OF 188 | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|
| GMI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | | | | | |
| STEP WIRE OR JACKET | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | STEP WIRE OR JACKET | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | |
| NUMBER | | | | | | | | | | ITEM NO. | | | | | | | | | | NUMBER | | | | | | | | | | ITEM NO. | | | | | | | | | |
| B 160E | | | | | | | | | | TB17- 28AB | | | | | | | | | | P61-A1 | | | | | | | | | | TB17- 27CD | | | | | | | | | |
| B 160X | | | | | | | | | | SHLD B 160 | | | | | | | | | | P61-A2 | | | | | | | | | | TB17- 26CD | | | | | | | | | |
| B 161 65 | | | | | | | | | | 225 200 86 87 856 | | | | | | | | | | 52 23 90 91 7 | | | | | | | | | | TB17- 25CD | | | | | | | | | |
| B 161A 41 | | | | | | | | | | SHLD B 161 | | | | | | | | | | TB17- 24CD | | | | | | | | | | TB17- 23CD | | | | | | | | | |
| B 161E | | | | | | | | | | TB17- 27AB | | | | | | | | | | P61-B1 | | | | | | | | | | TB17- 22CD | | | | | | | | | |
| B 161X | | | | | | | | | | SHLD B 161 | | | | | | | | | | P61-B2 | | | | | | | | | | TB17- 21CD | | | | | | | | | |
| B 162 65 | | | | | | | | | | 225 200 86 87 856 | | | | | | | | | | 52 23 90 91 7 | | | | | | | | | | TB17- 20CD | | | | | | | | | |
| B 162A 41 | | | | | | | | | | SHLD B 162 | | | | | | | | | | TB17- 19CD | | | | | | | | | | TB17- 18CD | | | | | | | | | |
| B 162E | | | | | | | | | | TB17- 26AB | | | | | | | | | | P61-C1 | | | | | | | | | | TB17- 17CD | | | | | | | | | |
| B 162X | | | | | | | | | | SHLD B 162 | | | | | | | | | | P61-C2 | | | | | | | | | | TB17- 16CD | | | | | | | | | |
| B 163 65 | | | | | | | | | | 225 200 86 87 856 | | | | | | | | | | 52 23 90 91 7 | | | | | | | | | | TB17- 15CD | | | | | | | | | |
| B 163A 41 | | | | | | | | | | SHLD B 163 | | | | | | | | | | TB17- 14CD | | | | | | | | | | TB17- 13CD | | | | | | | | | |
| B 163E | | | | | | | | | | TB17- 25AB | | | | | | | | | | P61-D1 | | | | | | | | | | TB17- 12CD | | | | | | | | | |
| B 163X | | | | | | | | | | SHLD B 163 | | | | | | | | | | P61-D2 | | | | | | | | | | TB17- 11CD | | | | | | | | | |
| B 164 65 | | | | | | | | | | 225 200 86 87 856 | | | | | | | | | | 52 23 90 91 7 | | | | | | | | | | TB17- 10CD | | | | | | | | | |
| B 164A 41 | | | | | | | | | | SHLD B 164 | | | | | | | | | | TB17- 9CD | | | | | | | | | | TB17- 9CD | | | | | | | | | |
| B 164E | | | | | | | | | | TB17- 4AB | | | | | | | | | | P61-E1 | | | | | | | | | | TB17- 8CD | | | | | | | | | |
| B 164X | | | | | | | | | | SHLD B 164 | | | | | | | | | | P61-E2 | | | | | | | | | | TB17- 7CD | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR AR | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | SHEET 28 OF 188 | | | | | | | | | | | | | | | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------|--|----------------------|-------------------|----------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NUMBER | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| B 200E | | P65-J | 25M | | P51-H | 11Y | | | |
| B 200X | | SHLD B 200 | | | P51-L | | | | |
| B 201 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 201A | 41 | SHLD B 201 | 25M | | TB17- 39CD | 16M | 107 | | |
| B 201E | | TB17- 39AB | 16M | 107 | P61-G1 | 11M | 89 | | |
| B 201X | | SHLD B 201 | | | P61-G2 | | | | |
| B 202 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 202A | 41 | SHLD B 202 | 25M | | TB17- 38CD | 16M | 107 | | |
| B 202E | | TB17- 38AB | 16M | 107 | P61-H1 | 11M | 89 | | |
| B 202X | | SHLD B 202 | | | P61-H2 | | | | |
| B 203 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 203A | 41 | SHLD B 203 | 25M | | TB17- 31CD | 16M | 107 | | |
| B 203E | | TB17- 31AB | 16M | 107 | P60-J1 | 11M | 89 | | |
| B 203X | | SHLD B 203 | | | P60-J2 | | | | |
| B 204 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 204A | 41 | SHLD B 204 | 25M | | TB17- 30CD | 16M | 107 | | |
| B 204E | | TB17- 30AB | 16M | 107 | P62-E1 | 11M | 89 | | |
| B 204X | | SHLD B 204 | | | P62-E2 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 32 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------|--|----------------------|-------------------|----------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NUMBER | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| B 205 | 45 | | 225 200 84 7 | | | 300 270 50 54 846 | | | |
| B 205B | 41 | E 50 | 25M | | SHLD B 205 | 25M | | | |
| B 205L | | P24-HH | 25M | | TB 2- 1 | 20M | 111 | | |
| B 205R | | P24-GG | 25M | | TB 2- 4 | 20M | 111 | | |
| B 206 | 44 | | 225 200 84 7 | | | 225 200 50 54 84 5 | | | |
| B 206B | 41 | E 55 | 25M | | SHLD B 206 | 25M | | | |
| B 206L | | P33-E | 25M | 157 | TB 7- 4 | 20M | 111 | | |
| B 206R | | P33-D | 25M | 157 | TB 7- 1 | 20M | 111 | | |
| B 207 | 41 | P82-S* | 25M | | TB12- 7 | 20M | 111 | | |
| B 208 | 41 | P82-T* | 25M | | TB12- 9 | 20M | 111 | | |
| B 209 | 02 | | 120 | | | 120 | | | |
| B 209L | | P22-K | 25M | 157 | TB 3- 7 | 20M | 111 | | |
| B 209R | | P22-J | 25M | 157 | TB 3- 5 | 20M | 111 | | |
| B 210 | 41 | E 13 | 25M | | TB19- 94 | 16M | 107 | | |
| B 211 | 41 | E 13 | 25M | | TB19- 91 | 16M | 107 | | |
| B 212 | 41 | E 13 | 25M | | TB19- 88 | 16M | 107 | | |
| B 213 | 41 | E 13 | 25M | | TB19- 85 | 16M | 107 | | |
| B 214 | 41 | E 13 | 25M | | TB19- 82 | 16M | 107 | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 33 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------|--|----------------------|-------------------|----------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NUMBER | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| B 215 | 41 | E 13 | 25M | | TB19- 80 | 16M | 107 | | |
| B 216 | 41 | E 13 | 25M | | TB19- 78 | 16M | 107 | | |
| B 217 | 41 | E 13 | 25M | | TB19- 75 | 16M | 107 | | |
| B 218 | 41 | E 13 | 25M | | TB19- 72 | 16M | 107 | | |
| B 219 | 41 | P91-Z | 25M | | TB23- 13 | 20M | 111 | | |
| B 220 | 41 | E 11 | 25M | | TB20- 58 | 16M | 107 | | |
| B 221 | 41 | E 11 | 25M | | TB20- 61 | 16M | 107 | | |
| B 222 | 41 | E 11 | 25M | | TB20- 64 | 16M | 107 | | |
| B 223 | 41 | E 11 | 25M | | TB20- 67 | 16M | 107 | | |
| B 224 | 41 | E 11 | 25M | | TB20- 69 | 16M | 107 | | |
| B 225 | 41 | E 11 | 25M | | TB20- 72 | 16M | 107 | | |
| B 226 | 41 | E 11 | 25M | | TB20- 75 | 16M | 107 | | |
| B 227 | 41 | E 11 | 25M | | TB20- 77 | 16M | 107 | | |
| B 228 | 41 | E 11 | 25M | | TB20- 80 | 16M | 107 | | |
| B 229 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 229A | 41 | SHLD B 229 | 25M | | TB17- 43CD | 16M | 107 | | |
| B 229E | | TB17- 43AB | 16M | 107 | P62-K1 | 11M | 89 | | |
| B 229X | | SHLD B 229 | | | P62-K2 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 34 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------|--|----------------------|-------------------|----------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NUMBER | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| B 230 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 230A | 41 | SHLD B 230 | 25M | | TB17- 42CD | 16M | 107 | | |
| B 230E | | TB17- 42AB | 16M | 107 | P62-B1 | 11M | 89 | | |
| B 230X | | SHLD B 230 | | | P62-B2 | | | | |
| B 231 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 231A | 41 | SHLD B 231 | 25M | | TB17- 41CD | 16M | 107 | | |
| B 231E | | TB17- 41AB | 16M | 107 | P62-C1 | 11M | 89 | | |
| B 231X | | SHLD B 231 | | | P62-C2 | | | | |
| B 232 | 65 | | 225 200 86 87 856 | | | 32 23 90 91 7 | | | |
| B 232A | 41 | SHLD B 232 | 25M | | TB17- 40CD | 16M | 107 | | |
| B 232E | | TB17- 40AB | 16M | 107 | P62-D1 | 11M | 89 | | |
| B 232X | | SHLD B 232 | | | P62-D2 | | | | |
| B 233 | 41 | E 62 | 20M | 111 | E 12 | 25M | | | |
| B 234 | 41 | E 63 | 20M | 111 | E 13 | 25M | | | |
| B 237 | 41 | E 19 | 25M | | TB18- 75 | 16M | 107 | | |
| B 238 | 41 | E 19 | 25M | | TB18- 78 | 16M | 107 | | |
| B 239 | 41 | E 19 | 25M | | TB18- 81 | 16M | 107 | | |
| B 240 | 41 | E 19 | 25M | | TB18- 84 | 16M | 107 | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 35 OF 188 | | | | |

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| GHI | | | WIRING HARNESSES | | | | | | | | | | AR | | | 1900943 | | | | | | | | |
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | TERMINATION | | | | | | | | |
| ITEM NO. | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | ITEM NO. | | | | | | | | |
| STEP WIRE OR JACKET | | | STEP WIRE OR JACKET | | | | | | | | | | STEP WIRE OR JACKET | | | STEP WIRE OR JACKET | | | | | | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | CIRCUIT POINT | | | | | | | | |
| NO. | | | NO. | | | | | | | | | | NO. | | | NO. | | | | | | | | |
| B 241 | | | E 19 | | | | | | | | | | 25N | | | TB18- 87 | | | 16N | | | 107 | | |
| B 242 | | | E 19 | | | | | | | | | | 25N | | | TB18- 90 | | | 16N | | | 107 | | |
| B 243 | | | E 19 | | | | | | | | | | 25N | | | TB18- 93 | | | 16N | | | 107 | | |
| B 244 | | | E 19 | | | | | | | | | | 25N | | | TB18- 96 | | | 16N | | | 107 | | |
| B 245 | | | E 19 | | | | | | | | | | 25N | | | TB18- 99 | | | 16N | | | 107 | | |
| B 246 | | | E 4 | | | | | | | | | | 25N | | | TB22- 61 | | | 16N | | | 107 | | |
| B 247 | | | E 4 | | | | | | | | | | 25N | | | TB22- 64 | | | 16N | | | 107 | | |
| B 248 | | | E 4 | | | | | | | | | | 25N | | | TB22- 67 | | | 16N | | | 107 | | |
| B 249 | | | E 4 | | | | | | | | | | 25N | | | TB22- 69 | | | 16N | | | 107 | | |
| B 250 | | | E 4 | | | | | | | | | | 25N | | | TB22- 72 | | | 16N | | | 107 | | |
| B 251 | | | E 4 | | | | | | | | | | 25N | | | TB22- 77 | | | 16N | | | 107 | | |
| B 252 | | | E 4 | | | | | | | | | | 25N | | | TB22- 74 | | | 16N | | | 107 | | |
| B 253 | | | E 4 | | | | | | | | | | 25N | | | TB22- 82 | | | 16N | | | 107 | | |
| B 254 | | | E 4 | | | | | | | | | | 25N | | | TB22- 85 | | | 16N | | | 107 | | |
| B 255 | | | DELETE | | | | | | | | | | | | | | | | | | | | | |
| B 256 | | | P31-P* | | | | | | | | | | 25N | | | P36-L | | | 25N | | | | | |
| B 257 | | | P31-GG | | | | | | | | | | 25N | | | P36-V | | | 25N | | | | | |
| B 258 | | | 225 200 48 52 845 | | | | | | | | | | | | | 225 200 85 | | | | | | | | |
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| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|-------------------|----------------------|-------------------|-------------------|----------------------|---------------|-------------------|--|-------------------|--------------------|----------------------|---------------|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B 295R | | | | P20-I* | 25M | | J16-R* | 25M | | | | | | |
| B 296 | 44 | | | | 225 200 48 52 845 | | | 225 200 85 | 7 | | | | | |
| B 296A | 41 | | | SHLD B 296 | 25M | | E 28 | 25M | | | | | | |
| B 296L | | | | P20-F* | 25M | | J16-Q* | 25M | | | | | | |
| B 296R | | | | P20-G* | 25M | | J16-P* | 25M | | | | | | |
| B 297 | 44 | | | | 225 200 48 52 845 | | | 225 200 85 | 7 | | | | | |
| B 297A | 41 | | | SHLD B 297 | 25M | | E 28 | 25M | | | | | | |
| B 297L | | | | P20-D* | 25M | | J16-N* | 25M | | | | | | |
| B 297R | | | | P20-E* | 25M | | J16-M* | 25M | | | | | | |
| B 298 | 44 | | | | 225 200 48 52 845 | | | 225 200 85 | 7 | | | | | |
| B 298A | 41 | | | SHLD B 298 | 25M | | E 28 | 25M | | | | | | |
| B 298L | | | | P20-B* | 25M | | J16-K* | 25M | | | | | | |
| B 298R | | | | P20-C* | 25M | | J16-J* | 25M | | | | | | |
| B 299 | 41 | | | P92-N* | 25M | | TB23- 14 | 20M | 111 | | | | | |
| B 300 | 41 | | | E 61 | 20M | 111 | E 6 | 25M | | | | | | |
| B 301 | 41 | | | E 63 | 20M | 111 | E 18 | 25M | | | | | | |
| B 303 | 41 | | | E 63 | 20M | 111 | E 17 | 25M | | | | | | |
| B 305 | 41 | | | E 12 | 25M | | TB19-100 | 16M | 107 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 40 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|-------------------|----------------------|---------------|-------------------|----------------------|-------------------|-------------------|--|-------------------|--------------------|----------------------|---------------|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B 306 | 41 | | | E 12 | 25M | | TB19- 97 | 16M | 107 | | | | | |
| B 307 | 40 | | | P91-A | 25M | | TB25- 7 | 20M | 111 | | | | | |
| B 308 | 41 | | | E 5 | 25M | | TB22- 88 | 16M | 107 | | | | | |
| B 309 | 41 | | | E 5 | 25M | | TB22- 91 | 16M | 107 | | | | | |
| B 310 | 41 | | | E 5 | 25M | | TB22- 94 | 16M | 107 | | | | | |
| B 311 | 41 | | | E 5 | 25M | | TB22- 98 | 16M | 107 | | | | | |
| B 312 | 41 | | | E 5 | 25M | | TB22-100 | 16M | 107 | | | | | |
| B 313 | 47 | | | | 225 200 85 | | | 300 270 48 52 846 | | | | | | |
| B 313B | 41 | | | TB20- 18 | 16M | 107 | SHLD B 313 | 25M | | | | | | |
| B 313L | | | | P36-K* | 25M | | TB20- 19CD | 16M | 107 | | | | | |
| B 313R | | | | P36-J* | 25M | | TB20- 19AB | 16M | 107 | | | | | |
| B 314 | 41 | | | E 62 | 20M | 111 | E 15 | 25M | | | | | | |
| B 316 | 44 | | | | 225 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 316B | 41 | | | TB18- 9 | 16M | 107 | SHLD B 316 | 25M | | | | | | |
| B 316L | | | | P82-J | 25M | | TB18- 8CD | 16M | 107 | | | | | |
| B 316R | | | | P82-H | 25M | | TB18- 8AB | 16M | 107 | | | | | |
| B 317 | 44 | | | | 225 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 317B | 41 | | | TB19- 30 | 16M | 107 | SHLD B 317 | 25M | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 41 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|-------------------|----------------------|---------------|-------------------|----------------------|-------------------|-------------------|--|-------------------|--------------------|----------------------|---------------|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B 317L | | | | P82-L | 25M | | TB19- 29CD | 16M | 107 | | | | | |
| B 317R | | | | P82-K | 25M | | TB19- 29AB | 16M | 107 | | | | | |
| B 318 | 44 | | | | 225 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 318B | 41 | | | TB19- 24 | 16M | 107 | SHLD B 318 | 25M | | | | | | |
| B 318L | | | | P82-C* | 25M | | TB19- 25CD | 16M | 107 | | | | | |
| B 318R | | | | P82-B* | 25M | | TB19- 25AB | 16M | 107 | | | | | |
| B 319 | 44 | | | | 225 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 319B | 41 | | | TB19- 24 | 16M | 107 | SHLD B 319 | 25M | | | | | | |
| B 319L | | | | P82-E* | 25M | | TB19- 23CD | 16M | 107 | | | | | |
| B 319R | | | | P82-D* | 25M | | TB19- 23AB | 16M | 107 | | | | | |
| B 320 | 44 | | | | 225 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 320B | 41 | | | TB19- 27 | 16M | 107 | SHLD B 320 | 25M | | | | | | |
| B 320L | | | | P82-G* | 25M | | TB19- 26CD | 16M | 107 | | | | | |
| B 320R | | | | P82-F* | 25M | | TB19- 26AB | 16M | 107 | | | | | |
| B 321 | 41 | | | E 20 | 25M | | TB17-100 | 16M | 107 | | | | | |
| B 322 | 41 | | | E 20 | 25M | | TB17- 97 | 16M | 107 | | | | | |
| B 323 | 41 | | | E 20 | 25M | | TB17- 94 | 16M | 107 | | | | | |
| B 324 | 41 | | | E 20 | 25M | | TB17- 91 | 16M | 107 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 42 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|-------------------|----------------------|---------------|-------------------|----------------------|---------------|-------------------|--|-------------------|--------------------|----------------------|---------------|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. | 3 | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | NO. | ITEM NO. |
| NUMBER | ITEM NO. | 3 | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT | INDIVIDUAL LENGTH | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B 325 | 41 | | | E 20 | 25M | | TB17- 88 | 16M | 107 | | | | | |
| B 326 | 41 | | | E 20 | 25M | | TB17- 84 | 16M | 107 | | | | | |
| B 327 | 41 | | | E 20 | 25M | | TB17- 83 | 16M | 107 | | | | | |
| B 328 | 41 | | | E 20 | 25M | | TB17- 80 | 16M | 107 | | | | | |
| B 329 | 41 | | | E 20 | 25M | | TB17- 77 | 16M | 107 | | | | | |
| B 330 | 42 | | | P21-R* | 25M | | J18-FF | 25M | | | | | | |
| B 331 | 42 | | | P21-M* | 25M | | J18-GG | 25M | | | | | | |
| B 332 | 41 | | | E 14 | 25M | | TB19- 69 | 16M | 107 | | | | | |
| B 333 | 41 | | | E 14 | 25M | | TB19- 64 | 16M | 107 | | | | | |
| B 334 | 41 | | | E 14 | 25M | | TB19- 63 | 16M | 107 | | | | | |
| B 335 | 41 | | | E 14 | 25M | | TB19- 61 | 16M | 107 | | | | | |
| B 336 | 41 | | | E 14 | 25M | | TB19- 58 | 16M | 107 | | | | | |
| B 337 | 41 | | | E 14 | 25M | | TB19- 55 | 16M | 107 | | | | | |
| B 338 | 41 | | | E 14 | 25M | | TB19- 52 | 16M | 107 | | | | | |
| B 339 | 41 | | | E 14 | 25M | | TB19- 49 | 16M | 107 | | | | | |
| B 340 | 41 | | | TB 9- 7 | 16M | 111 | TB19- 39 | 16M | 107 | | | | | |
| B 341 | 41 | | | E 12 | 25M | | TB20- 83 | 16M | 107 | | | | | |
| B 342 | 41 | | | E 12 | 25M | | TB20- 85 | 16M | 107 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 43 OF 188 | | | | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|--------------------|--|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 343 | 41 | E 12 | 25M | T820- 88 | 16M 107 |
| B 344 | 41 | E 12 | 25M | T820- 91 | 16M 107 |
| B 345 | 41 | E 12 | 25M | T820- 94 | 16M 107 |
| B 346 | 41 | E 12 | 25M | T820- 97 | 16M 107 |
| B 347 | 41 | E 12 | 25M | T820-100 | 16M 107 |
| B 348 | 41 | P82-A | 25M | T825- 1 | 20M 111 |
| B 349 | 41 | E 61 | 20M 111 | E 4 | 25M |
| B 350 | 41 | E 61 | 20M 111 | E 7 | 25M |
| B 351 | 41 | E 62 | 20M 111 | E 10 | 25M |
| B 354 | 41 | E 5 | 25M | T821-100 | 16M 107 |
| B 355 | 41 | E 5 | 25M | T821- 97 | 16M 107 |
| B 356 | 41 | E 5 | 25M | T821- 94 | 16M 107 |
| B 357 | 41 | E 5 | 25M | T821- 91 | 16M 107 |
| B 358 | 98 | | 225 200 103 53 845 | | 225 200 84 |
| B 358A | 41 | SHLD B 358 | 25M | E 30 | 25M |
| B 358L | | P21-MM | 25M | J24-Y | 25M |
| B 358R | | P21-LL | 25M | J24-X | 25M |
| B 358Y | | P21-MM | 25M | J24-Z | 25M |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 44 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|--------------------|--|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 359 | 08 | | 120 | | 120 |
| B 359L | | P21-X* | 25M | J24-DD | 25M |
| B 359R | | P21-W* | 25M | J24-CC | 25M |
| B 360 | 45 | | 225 200 84 | | 225 200 84 |
| B 360B | 41 | E 26 | 25M | SHLD B 360 | 25M |
| B 360L | | P21-BB | 25M | J24-FF | 25M |
| B 360R | | P21-AA | 25M | J24-EE | 25M |
| B 361 | 98 | | 225 200 103 53 845 | | 225 200 84 |
| B 361A | 41 | SHLD B 361 | 25M | E 30 | 25M |
| B 361L | | P21-T* | 25M | J24-J | 25M |
| B 361R | | P21-U* | 25M | J24-G | 25M |
| B 361Y | | P21-S* | 25M | J24-H | 25M |
| B 362 | 65 | | 225 200 84 87 856 | | 225 200 84 87 856 |
| B 362A | 41 | SHLD B 362 | 25M | P21-DD | 25M |
| B 362B | 41 | J24-N | 25M | SHLD B 362 | 25M |
| B 362E | | P21-CC | 25M | J24-M | 25M |
| B 363 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 363B | 41 | T819- 30 | 16M 107 | SHLD B 363 | 25M |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 45 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|--------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 363L | | P82-J* | 25M | T819- 31CD | 16M 107 |
| B 363R | | P82-H* | 25M | T819- 31AB | 16M 107 |
| B 364 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 364B | 41 | T819- 27 | 16M 107 | SHLD B 364 | 25M |
| B 364L | | P82-X* | 25M | T819- 28CD | 16M 107 |
| B 364R | | P82-W* | 25M | T819- 28AB | 16M 107 |
| B 365 | 16 | P63-A | 25M | T825- 4 | 20M 111 |
| B 366 | 16 | T820- 11AB | 25M 108 | T8 9- 1 | 20M 111 |
| B 367 | 178 | E 1 | 40M 179 | T8 9- 5 | 40M 179 |
| B 368 | 41 | E 62 | 25M 111 | E 5 | 25M |
| B 370 | 65 | | 52 23 90 91 7 | | 225 200 84 87 856 |
| B 370B | 41 | T818- 76 | 16M 107 | SHLD B 370 | 25M |
| B 370E | | P66-B1 | 11M 89 | T818- 77 | 16M 107 |
| B 370X | | P66-B2 | | SHLD B 370 | |
| B 371 | 65 | | 52 23 90 91 7 | | 225 200 84 87 85 6 |
| B 371B | 41 | T818- 72CD | 16M 107 | SHLD B 371 | 25M |
| B 371E | | P66-D1 | 11M 89 | T818- 72AB | |
| B 371X | | P66-D2 | | SHLD B 371 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 46 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 372 | 41 | P35-A | 25M | T825- 8 | 20M 111 |
| B 373 | 41 | E 62 | 25M | E 9 | 25M |
| B 374 | 41 | E 62 | 25M | E 16 | 25M |
| B 375 | | DELETE | | | |
| B 377 | 42 | P35-X | 25M | T819- 98AB | 16M 107 |
| B 378 | 41 | P99-P* | 25M | T823- 14 | 20M 111 |
| B 379 | 16 | J 3-MM | 25M | T813- 5 | 20M 111 |
| B 380 | 45 | | 225 200 50 54 845 | | 225 200 84 |
| B 380A | 41 | SHLD B 380 | 25M | E 30 | 25M |
| B 380L | | P21-MM | 25M | J25-M* | 25M |
| B 380R | | P21-GG | 25M | J25-M* | 25M |
| B 381 | 45 | | 225 200 84 | | 225 200 84 7 |
| B 381B | 41 | E 25 | 25M | SHLD B 381 | 25M |
| B 381L | | P21-KK | 25M | J25-K* | 25M |
| B 381R | | P21-JJ | 25M | J25-J* | 25M |
| B 382 | 44 | | 225 200 83 7 | | 300 270 51 53 835 |
| B 382B | 41 | E 44 | 25M | SHLD B 382 | 25M |
| B 382L | | P42-E | 25M | T810- 6 | 20M 111 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 47 OF 188 | |

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WIRING HARNESS B

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1900943

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|---------------------|---------------|-----|-----|----|-------------------|---------------------|---------------|--|----|--------------------|----------|---------------------|---------------|-----------------|-------------------|---|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | T | D | N | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | T | D | N | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | T | D | N | | | |
| B 382R | | P42-D | 25M | | | | | TB10- 3 | 20M | | | | 111 | | | | | | | | |
| B 383 | 44 | | 225 | 200 | 86 | | 7 | | 300 | 270 | 51 | 55 | 85% | | | | | | | | |
| B 383B | 41 | E 44 | 25M | | | | | SHLD B 383 | 25M | | | | | | | | | | | | |
| B 383L | | P44-E | 25M | | | | | TB10- 5 | 20M | | | | 111 | | | | | | | | |
| B 383N | | P44-D | 25M | | | | | TB10- 3 | 20M | | | | 111 | | | | | | | | |
| B 384 | 65 | | 52 | 23 | 90 | 91 | 7 | | 225 | 200 | 86 | 87 | 85% | | | | | | | | |
| B 384B | 41 | TB17- 49CD | 16M | | 107 | | | SHLD B 384 | 25M | | | | | | | | | | | | |
| B 384E | | P67-A1 | 11M | | 89 | | | TB17- 49AB | 16M | | | 107 | | | | | | | | | |
| B 384X | | P67-A2 | | | | | | SHLD B 384 | | | | | | | | | | | | | |
| B 385 | 65 | | 52 | 23 | 90 | 91 | 7 | | 225 | 200 | 86 | 87 | 85% | | | | | | | | |
| B 385B | 41 | TB17- 48CD | 16M | | 107 | | | SHLD B 385 | 25M | | | | | | | | | | | | |
| B 385E | | P69-B1 | 11M | | 89 | | | TB17- 48AB | 16M | | | 107 | | | | | | | | | |
| B 385X | | P69-B2 | | | | | | SHLD B 385 | | | | | | | | | | | | | |
| B 386 | 65 | | 52 | 23 | 90 | 91 | 7 | | 225 | 200 | 86 | 87 | 85% | | | | | | | | |
| B 386B | 41 | TB17- 47CD | 16M | | 107 | | | SHLD B 386 | 25M | | | | | | | | | | | | |
| B 386E | | P67-B1 | 11M | | 89 | | | TB17- 47AB | 16M | | | 107 | | | | | | | | | |
| B 386X | | P67-B2 | | | | | | SHLD B 386 | | | | | | | | | | | | | |
| B 387 | 65 | | 52 | 23 | 90 | 91 | 7 | | 225 | 200 | 86 | 87 | 85% | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | | | | | | | |
| | | | | | | | | | | SCALE-NONE | | REV LTR | | AR | | SHEET 48 OF 188 | | | | | |

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WIRING HARNESS B

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1900943

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|-----------------------------------|-----|-----|----|----------|-------------------|---|---|--|-----------------------------------|--------------------|-----|---------|----------|-----------------|-------------------|---|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET CIRCUIT POINT | T | D | N | ITEM NO. | T | D | N | ITEM NO. | STEP WIRE OR JACKET CIRCUIT POINT | T | D | N | ITEM NO. | T | D | N | | | |
| B 387B | 41 | TB17- 46CD | 16M | 107 | | | | | | | SHLD B 387 | 25M | | | | | | | | | |
| B 387E | | P69-C1 | 11M | 89 | | | | | | | TB17- 46AB | 16M | 107 | | | | | | | | |
| B 387X | | P69-C2 | | | | | | | | | SHLD B 387 | | | | | | | | | | |
| B 388 | 65 | | 52 | 23 | 90 | 91 | 7 | | | | | 225 | 200 | 86 | 87 | 856 | | | | | |
| B 388B | 41 | TB17- 45CD | 16M | 107 | | | | | | | SHLD B 388 | 25M | | | | | | | | | |
| B 388E | | P67-C1 | 11M | 89 | | | | | | | TB17- 45AB | 16M | 107 | | | | | | | | |
| B 388X | | P67-C2 | | | | | | | | | SHLD B 388 | | | | | | | | | | |
| B 389 | 65 | | 52 | 23 | 90 | 91 | 7 | | | | | 225 | 200 | 86 | 87 | 856 | | | | | |
| B 389B | 41 | TB17- 44CD | 16M | 107 | | | | | | | SHLD B 389 | 25M | | | | | | | | | |
| B 389E | | P69-D1 | 11M | 89 | | | | | | | TB17- 44AB | 16M | 107 | | | | | | | | |
| B 389X | | P69-D2 | | | | | | | | | SHLD B 389 | | | | | | | | | | |
| B 390 | 41 | E 61 | 25M | | | | | | | | E 3 | 25M | | | | | | | | | |
| B 392 | 41 | P82-Q* | 25M | | | | | | | | TB23- 18 | 20M | 111 | | | | | | | | |
| B 393 | 40 | J20-N | 25M | 157 | | | | | | | TB 3- 6 | 20M | 111 | | | | | | | | |
| B 394 | 40 | J20-D | 25M | 157 | | | | | | | TB 3- 8 | 20M | 111 | | | | | | | | |
| B 395 | 41 | E 61 | 25M | | | | | | | | E 8 | 25M | | | | | | | | | |
| B 397 | 42 | P34-N | 25M | | | | | | | | P37-EE | 25M | | | | | | | | | |
| B 398 | 65 | | 52 | 23 | 90 | 91 | 7 | | | | | 225 | 200 | 86 | 87 | 856 | | | | | |
| ▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | | | | | | | |
| | | | | | | | | | | SCALE-NONE | | REV LTR | | AR | | SHEET 49 OF 188 | | | | | |

| GM1 | | | | WIRING HARNESS B | | | | AR | | | | 1900943 | | | | | | | |
|---|----|--|--|--------------------|-----|-----|----|---------------|---|--|------------|---------------------|-----|---------|----|-----------------|--|--|--|
| CONDUCTOR | | | | FROM | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | |
| STEP WIRE OR JACKET | | | | ITEM NO. | | | | ITEM NO. | | | | STEP WIRE OR JACKET | | | | ITEM NO. | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| ITEM NO. | | | | ITEM NO. | | | | ITEM NO. | | | | ITEM NO. | | | | ITEM NO. | | | |
| B 398B | 41 | | | TB17- 37CD | 16M | 107 | | | | | SHLD B 398 | 25M | | | | | | | |
| B 398E | | | | P67-G1 | 11M | 89 | | | | | TB17- 37AB | 16M | 107 | | | | | | |
| B 398X | | | | P67-G2 | | | | | | | SHLD B 398 | | | | | | | | |
| B 399 | 65 | | | | 52 | 23 | 90 | 91 | 7 | | | 225 | 200 | 86 | 87 | 856 | | | |
| B 399B | 41 | | | TB17- 36CD | 16M | 107 | | | | | SHLD B 399 | 25M | | | | | | | |
| B 399E | | | | P69-H1 | 11M | 89 | | | | | TB17- 36AB | 16M | 107 | | | | | | |
| B 399X | | | | P69-H2 | | | | | | | SHLD B 399 | | | | | | | | |
| B 400 | 65 | | | | 52 | 23 | 90 | 91 | 7 | | | 225 | 200 | 86 | 87 | 856 | | | |
| B 400B | 41 | | | TB17- 35CD | 16M | 107 | | | | | SHLD B 400 | 25M | | | | | | | |
| B 400E | | | | P67-H1 | 11M | 89 | | | | | TB17- 35AB | 16M | 107 | | | | | | |
| B 400X | | | | P67-H2 | | | | | | | SHLD B 400 | | | | | | | | |
| B 401 | 65 | | | | 52 | 23 | 90 | 91 | 7 | | | 225 | 200 | 86 | 87 | 856 | | | |
| B 401B | 41 | | | TB17- 34CD | 16M | 107 | | | | | SHLD B 401 | 25M | | | | | | | |
| B 401E | | | | P69-J1 | 11M | 89 | | | | | TB17- 34AB | 16M | 107 | | | | | | |
| B 401X | | | | P69-J2 | | | | | | | SHLD B 401 | | | | | | | | |
| B 402 | 65 | | | | 52 | 23 | 90 | 91 | 7 | | | 225 | 200 | 86 | 87 | 856 | | | |
| B 402B | 41 | | | TB17- 33CD | 16M | 107 | | | | | SHLD B 402 | 25M | | | | | | | |
| B 402E | | | | P67-J1 | 11M | 89 | | | | | TB17- 33AB | 16M | 107 | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | | | | | |
| | | | | | | | | | | SCALE-NONE | | REV LTR | | AR | | SHEET 50 OF 188 | | | |

GM1

WIRING HARNESS B

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1900943

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|----------------------|--|--|--|--|-------------|-----|-----|----|---|--|------------|-----------------|---------|-----|-------------|-----|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | |
| | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| B 402X | | P67-J2 | | | | | | | | | | | SHLD B 402 | | | | | | | | |
| B 403 | 65 | | | | | | 52 | 23 | 90 | 91 | 7 | | | 225 | 200 | 86 | 87 | 856 | | | |
| B 403B | 41 | TB17- 32CD | | | | | 16M | | 107 | | | | SHLD B 403 | 25M | | | | | | | |
| B 403E | | P70-A1 | | | | | 11M | | 89 | | | | TB17- 32AB | 16M | | 107 | | | | | |
| B 403X | | P70-A2 | | | | | | | | | | | SHLD B 403 | | | | | | | | |
| B 404 | 16 | P33-B | | | | | 25M | | | | | | TB24- 3 | 40M | | 111 | | | | | |
| B 405 | 16 | P33-X | | | | | 25M | | | | | | TB24- 6 | 40M | | 111 | | | | | |
| B 406 | 42 | P92-C | | | | | 25M | | | | | | P82-U* | 25M | | | | | | | |
| B 407 | 41 | TB20- 37AB | | | | | 16M | | 107 | | | | TB24- 9 | 20M | | 111 | | | | | |
| B 408 | 46 | | | | | | 225 | 200 | 85 | | | | | 400 | 370 | 48 | 52 | 846 | | | |
| B 408B | 41 | TB19- 78 | | | | | 16M | | 107 | | | | SHLD B 408 | 25M | | | | | | | |
| B 408L | | P36-D | | | | | 25M | | | | | | TB19- 77CD | 16M | | 107 | | | | | |
| B 408R | | P36-E | | | | | 25M | | | | | | TB19- 77AB | 16M | | 107 | | | | | |
| B 409 | 46 | | | | | | 225 | 200 | 85 | | 7 | | | 400 | 370 | 48 | 52 | 846 | | | |
| B 409B | 41 | TB21- 76 | | | | | 16M | | 107 | | | | SHLD B 409 | 25M | | | | | | | |
| B 409L | | P91-B* | | | | | 25M | | | | | | TB21- 74 | 16M | | 107 | | | | | |
| B 409R | | P91-B | | | | | 25M | | | | | | TB21- 75 | 16M | | 107 | | | | | |
| B 410 | 41 | P71-A | | | | | 25M | | | | | | TB25- 7 | 20M | | 111 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | 1900943 | | | | | | |
| | | | | | | | | | | | | A | | | | | | | | | |
| SCALE-NONE | | | | | | | | | | | | REV LTR | AR | SHEET 51 OF 188 | | | | | | | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 411 | 42 | P35-G* | 25N | T820- 81AB | 16N |
| B 412 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 412B | 41 | T820- 78 | 16N | SHLD B 412 | 25N |
| B 412E | | P66-A1 | 11N | T820- 79 | 16N |
| B 412X | | P66-A2 | | SHLD B 412 | |
| B 413 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 413B | 41 | T820- 70 | 16N | SHLD B 413 | 25N |
| B 413E | | P66-E1 | 11N | T820- 71 | 16N |
| B 413X | | P66-E2 | | SHLD B 413 | |
| B 414 | 41 | P34-A | 25N | T825- 8 | 20N |
| B 415 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 415B | 41 | P16-V | 25N | SHLD B 415 | 25N |
| B 415E | | P67-D1 | 11N | P16-U | 25N |
| B 415X | | P67-D2 | | SHLD B 415 | |
| B 416 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 416B | 41 | P16-X | 25N | SHLD B 416 | 25N |
| B 416E | | P69-E1 | 11N | P16-W | 25N |
| B 416X | | P69-E2 | | SHLD B 416 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNE SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR |
| | | | | 1900943 | |
| | | | | SHEET 52 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 417 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 417B | 41 | P16-Z | 25N | SHLD B 417 | 25N |
| B 417E | | P67-E1 | 11N | P16-Y | 25N |
| B 417X | | P67-E2 | | SHLD B 417 | |
| B 418 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 418B | 41 | P16-B* | 25N | SHLD B 418 | 25N |
| B 418E | | P69-F1 | 11N | P16-A* | 25N |
| B 418X | | P69-F2 | | SHLD B 418 | |
| B 419 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 419B | 41 | P16-M* | 25N | SHLD B 419 | 25N |
| B 419E | | P67-F1 | 11N | P16-M* | 25N |
| B 419X | | P67-F2 | | SHLD B 419 | |
| B 420 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 420B | 41 | P17-G | 25N | SHLD B 420 | 25N |
| B 420E | | P69-G1 | 11N | P17-F | 25N |
| B 420X | | P69-G2 | | SHLD B 420 | |
| B 421 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 421B | 41 | P16-G | 25N | SHLD B 421 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNE SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR |
| | | | | 1900943 | |
| | | | | SHEET 53 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 421E | | P68-A1 | 11N | P16-F | 25N |
| B 421X | | P68-A2 | | SHLD B 421 | |
| B 422 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 422B | 41 | P16-J | 25N | SHLD B 422 | 25N |
| B 422E | | P70-B1 | 11N | P16-H | 25N |
| B 422X | | P70-B2 | | SHLD B 422 | |
| B 423 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 423B | 41 | P16-L | 25N | SHLD B 423 | 25N |
| B 423E | | P68-B1 | 11N | P16-K | 25N |
| B 423X | | P68-B2 | | SHLD B 423 | |
| B 424 | 42 | P64-EE | 25N | P16-Y* | 25N |
| B 425 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 425B | 41 | P16-S | 25N | SHLD B 425 | 25N |
| B 425E | | P66-J1 | 11N | P16-T | 25N |
| B 425X | | P66-J2 | | SHLD B 425 | |
| B 426 | 41 | P64-BB | 25N | P16-AA | 25N |
| B 427 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 427B | 41 | P16-N | 25N | SHLD B 427 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNE SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR |
| | | | | 1900943 | |
| | | | | SHEET 54 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 427E | | P70-C1 | 11N | P16-M | 25N |
| B 427X | | P70-C2 | | SHLD B 427 | |
| B 428 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 428B | 41 | P16-R | 25N | SHLD B 428 | 25N |
| B 428E | | P68-C1 | 11N | P16-P | 25N |
| B 428X | | P68-C2 | | SHLD B 428 | |
| B 429 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 429B | 41 | P17-K* | 25N | SHLD B 429 | 25N |
| B 429E | | P70-D1 | 11N | P17-J* | 25N |
| B 429X | | P70-D2 | | SHLD B 429 | |
| B 430 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 430B | 41 | P16-D* | 25N | SHLD B 430 | 25N |
| B 430E | | P68-G1 | 11N | P16-C* | 25N |
| B 430X | | P68-G2 | | SHLD B 430 | |
| B 431 | 65 | | 52 23 90 91 7 | 225 200 86 87 856 | |
| B 431B | 41 | P16-G* | 25N | SHLD B 431 | 25N |
| B 431E | | P70-H1 | 11N | P16-F* | 25N |
| B 431X | | P70-H2 | | SHLD B 431 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNE SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | | SCALE-NONE | REV LTR AR |
| | | | | 1900943 | |
| | | | | SHEET 55 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---------------------------------|----------|--|---------------|-------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 432 | 65 | | 52 | 23 90 91 | 7 | | 225 | 200 86 87 856 | |
| B 432B | 41 | P16-C | 25M | | | SHLD B 432 | 25M | | |
| B 432E | | P68-H1 | 11M | 89 | | P16-B | 25M | | |
| B 432X | | P68-H2 | | | | SHLD B 432 | | | |
| B 433 | 65 | | 52 | 23 90 91 | 7 | | 225 | 200 86 87 856 | |
| B 433B | 41 | P16-E | 25M | | | SHLD B 433 | 25M | | |
| B 433E | | P70-J1 | 11M | 89 | | P16-D | 25M | | |
| B 433X | | P70-J2 | | | | SHLD B 433 | | | |
| B 434 | 41 | E 61 | 25M | | | E 2 | 25M | | |
| B 436 | | DELETED | | | | | | | |
| B 436A | | DELETED | | | | | | | |
| B 436L | | DELETED | | | | | | | |
| B 436R | | DELETED | | | | | | | |
| B 437 | | DELETED | | | | | | | |
| B 437A | | DELETED | | | | | | | |
| B 437L | | DELETED | | | | | | | |
| B 437R | | DELETED | | | | | | | |
| B 438 | | DELETED | | | | | | | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE REV LTR AR SHEET 56 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---------------------------------|----------|--|---------------|---------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 438A | | DELETED | | | | | | | |
| B 438L | | DELETED | | | | | | | |
| B 438R | | DELETED | | | | | | | |
| B 439 | 44 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 439B | 41 | T821- 70 | 16M | 107 | | SHLD B 439 | 25M | | |
| B 439L | | P91-F* | 25M | | | T821- 69CD | 16M | 107 | |
| B 439R | | P91-F | 25M | | | T821- 69AB | 16M | 107 | |
| B 440 | 44 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 440B | 41 | T818- 99 | 16M | 107 | | SHLD B 440 | 25M | | |
| B 440L | | P91-D* | 25M | | | T818- 98CD | 16M | 107 | |
| B 440R | | P91-D | 25M | | | T818- 98AB | 16M | 107 | |
| B 441 | 44 | | 225 | 200 48 52 845 | | | 225 | 200 85 | 7 |
| B 441A | 41 | SHLD B 441 | 25M | | | E 33 | 25M | | |
| B 441L | | P91-C* | 25M | | | P 1-C | 25M | | |
| B 441R | | P91-C | 25M | | | P 1-F | 25M | | |
| B 442 | 44 | | 225 | 200 48 52 845 | | | 225 | 200 85 | 7 |
| B 442A | 41 | SHLD B 442 | 25M | | | E 33 | 25M | | |
| B 442L | | P91-E* | 25M | | | P 1-R | 25M | | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE REV LTR AR SHEET 57 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---------------------------------|----------|--|---------------|---------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 442R | | P91-E | 25M | | | P 1-G | 25M | | |
| B 443 | 46 | | 225 | 200 48 52 845 | | | 225 | 200 85 | 7 |
| B 443A | 41 | SHLD B 443 | 25M | | | E 33 | 25M | | |
| B 443L | | P91-G* | 25M | | | P 1-U | 25M | | |
| B 443R | | P91-G | 25M | | | P 1-K | 25M | | |
| B 444 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 845 | |
| B 444B | 41 | T818- 78 | 16M | 107 | | SHLD B 444 | 25M | | |
| B 444L | | P82-D | 25M | | | T818- 76 | 16M | 107 | |
| B 444R | | P82-E | 25M | | | T818- 77 | 16M | 107 | |
| B 445 | 45 | | 225 | 200 84 | | | 225 | 200 50 54 84 | |
| B 445A | 41 | SHLD B 445 | 25M | | | E32 | 25M | | |
| B 445L | | P35-B* | 25M | | | J22-Q* | 25M | | |
| B 445R | | P35-C* | 25M | | | J22-P* | 25M | | |
| B 446 | 45 | | 225 | 200 84 | | | 400 | 370 50 54 846 | |
| B 446B | 41 | T820- 75 | 16M | 107 | | SHLD B 446 | 25M | | |
| B 446L | | P35-Y | 25M | | | T820- 73CD | 16M | 108 | |
| B 446R | | P35-Z | 25M | | | T820- 74AB | 16M | 108 | |
| B 447 | 40 | P59-A | 25M | | | T825- 4 | 20M | 111 | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE REV LTR AR SHEET 58 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---------------------------------|----------|--|---------------|-------------|-----|---|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 448 | 42 | P41-S* | 25M | | | J23-A | 25M | | |
| B 449 | 42 | P41-T* | 25M | | | J23-B | 25M | | |
| B 450 | 42 | P41-U* | 25M | | | J23-C | 25M | | |
| B 451 | 42 | P41-V* | 25M | | | J23-D | 25M | | |
| B 452 | 42 | P41-W* | 25M | | | J23-E | 25M | | |
| B 453 | 42 | P41-X* | 25M | | | J23-F | 25M | | |
| B 454 | 42 | P41-Y* | 25M | | | J23-G | 25M | | |
| B 455 | 42 | P41-Z* | 25M | | | J23-H | 25M | | |
| B 456 | 42 | P41-AA | 25M | | | J23-J | 25M | | |
| B 457 | 42 | P41-BB | 25M | | | J23-V | 25M | | |
| B 458 | 42 | P41-CC | 25M | | | J23-W | 25M | | |
| B 459 | 42 | P41-DD | 25M | | | J23-X | 25M | | |
| B 460 | 42 | P41-EE | 25M | | | J23-Y | 25M | | |
| B 461 | 42 | P41-FF | 25M | | | J23-Z | 25M | | |
| B 462 | 42 | P41-GG | 25M | | | J23-A* | 25M | | |
| B 463 | 42 | P41-HH | 25M | | | J23-B* | 25M | | |
| B 464 | 42 | P41-JJ | 25M | | | J23-C* | 25M | | |
| B 465 | 42 | P41-KK | 25M | | | J23-D* | 25M | | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE REV LTR AR SHEET 59 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|---------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 466 | 42 | P41-LL | 25N | | | J23-E* | 25N | | |
| B 467 | 42 | P41-MM | 25N | | | J23-Q* | 25N | | |
| B 468 | 42 | P41-NN | 25N | | | J23-R* | 25N | | |
| B 469 | 42 | P41-PP | 25N | | | J23-S* | 25N | | |
| B 470 | 41 | P71-S* | 25N | | | TB 9- 4 | 20N | 111 | |
| B 471 | 65 | | 52 | 23 | 90 | | 225 | 200 | 84 87 856 |
| B 471B | 41 | TB20- 81CD | 16N | 107 | | SHLD B 471 | 25N | | |
| B 471E | | P66-C1 | 11N | 89 | | TB20- 68AB | 16N | 107 | |
| B 471X | | P66-C2 | | | | SHLD B 471 | | | |
| B 472 | 14 | TB23- 12 | 20N | 111 | | P31-M | 25N | | |
| B 473 | 46 | | 225 | 200 | 85 | | 400 | 370 | 85 |
| B 473B | 41 | TB19- 52 | 16N | | | SHLD B 473 | 25N | | |
| B 473L | | P35-E* | 25N | | | TB19- 51CD | 16N | 107 | |
| B 473R | | P35-F* | 25N | | | TB19- 51AB | 16N | 107 | |
| B 474 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 474B | 41 | E 40 | 25N | | | SHLD B 474 | 25N | | |
| B 474L | | P10-PP | 25N | | | J 3-B | 25N | | |
| B 474R | | P10-AA | 25N | | | J 3-A | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 60 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|---------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 475 | 46 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 475B | 41 | E 40 | 25N | | | SHLD B 475 | 25N | | |
| B 475L | | P10-A* | 25N | | | J 3-E | 25N | | |
| B 475R | | P10-A | 25N | | | J 3-D | 25N | | |
| B 476 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 476B | 41 | E 40 | 25N | | | SHLD B 476 | 25N | | |
| B 476L | | P85-V* | 25N | | | J 3-H | 25N | | |
| B 476R | | P85-U* | 25N | | | J 3-G | 25N | | |
| B 477 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 477B | 41 | E 40 | 25N | | | SHLD B 477 | 25N | | |
| B 477L | | P84-V* | 25N | | | J 3-L | 25N | | |
| B 477R | | P84-U* | 25N | | | J 3-K | 25N | | |
| B 478 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 478B | 41 | E 40 | 25N | | | SHLD B 478 | 25N | | |
| B 478L | | P 9-V* | 25N | | | J 3-P | 25N | | |
| B 478R | | P 9-U* | 25N | | | J 3-N | 25N | | |
| B 479 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 479B | 41 | E 40 | 25N | | | SHLD B 479 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 61 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|---------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 479L | | P86-V* | 25N | | | J 3-T | 25N | | |
| B 479R | | P86-U* | 25N | | | J 3-S | 25N | | |
| B 480 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 480B | 41 | E 40 | 25N | | | SHLD B 480 | 25N | | |
| B 480L | | P83-Z* | 25N | | | J 3-Q* | 25N | | |
| B 480R | | P83-Y* | 25N | | | J 3-P* | 25N | | |
| B 481 | 44 | | 225 | 200 | 85 | | 225 | 200 | 48 52 845 |
| B 481B | 41 | E 40 | 25N | | | SHLD B 481 | 25N | | |
| B 481L | | P83-V* | 25N | | | J 3-T* | 25N | | |
| B 481R | | P83-U* | 25N | | | J 3-S* | 25N | | |
| B 482 | 41 | P64-FF | 25N | | | TB17- 2AB | 16N | 107 | |
| B 484 | 44 | | 225 | 200 | 85 | | 400 | 370 | 48 52 845 |
| B 484B | 41 | TB20- 21 | 16N | 107 | | SHLD B 484 | 25N | | |
| B 484L | | P19-C | 25N | | | TB20- 20CD | 16N | 107 | |
| B 484R | | P19-B | 25N | | | TB20- 20AB | 16N | 107 | |
| B 485 | 42 | P92-B | 25N | | | TB21- 77AB | 16N | 107 | |
| B 486 | 44 | | 225 | 200 | 85 | | 400 | 370 | 48 52 845 |
| B 486B | 41 | TB17- 50 | 16N | 107 | | SHLD B 486 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 62 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|---------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 486L | | P10-LL | 25N | | | TB17- 51CD | 16N | 107 | |
| B 486R | | P10-KK | 25N | | | TB17- 51AB | 16N | 107 | |
| B 487 | 44 | | 225 | 200 | 85 | | 400 | 370 | 48 52 845 |
| B 487B | 41 | TB17- 53 | 16N | 107 | | SHLD B 487 | 25N | | |
| B 487L | | P10-MM | 25N | | | TB17- 52CD | 16N | 107 | |
| B 487R | | P10-MM | 25N | | | TB17- 52AB | 16N | 107 | |
| B 488 | 44 | | 225 | 200 | 85 | | 400 | 370 | 48 52 845 |
| B 488B | 41 | TB17- 56 | 16N | 107 | | SHLD B 488 | 25N | | |
| B 488L | | P84-LL | 25N | | | TB17- 55CD | 16N | 107 | |
| B 488R | | P84-KK | 25N | | | TB17- 55AB | 16N | 107 | |
| B 489 | 44 | | 225 | 200 | 85 | | 400 | 370 | 48 52 845 |
| B 489B | 41 | TB17- 56 | 16N | 107 | | SHLD B 489 | 25N | | |
| B 489L | | P 9-LL | 25N | | | TB17- 57CD | 16N | 107 | |
| B 489R | | P 9-KK | 25N | | | TB17- 57AB | 16N | 107 | |
| B 490 | 44 | | 225 | 200 | 85 | | 400 | 370 | 48 52 845 |
| B 490B | 41 | TB17- 56 | 16N | 107 | | SHLD B 490 | 25N | | |
| B 490L | | P86-LL | 25N | | | TB17- 58CD | 16N | 107 | |
| B 490R | | P86-KK | 25N | | | TB17- 58AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 63 OF 188 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| GMI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | TERMINATION SPEC | | | | | | | | | |
| NUMBER | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | |
| B 491 | | | | | | | | | | DELETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 491A | | | | | | | | | | DELETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 491B | | | | | | | | | | DELETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 491E | | | | | | | | | | DELETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 492 | | | | | | | | | | P71-T* | | | | | | | | | | TB23- 17 | | | | | | | | | | 20M 111 | | | | | | | | | |
| B 493 | | | | | | | | | | P36-PP | | | | | | | | | | TB21- 72 | | | | | | | | | | 16M 107 | | | | | | | | | |
| B 496 | | | | | | | | | | P43-R | | | | | | | | | | TB24- 5 | | | | | | | | | | 20M 111 | | | | | | | | | |
| B 499 | | | | | | | | | | P43-S | | | | | | | | | | TB24- 8 | | | | | | | | | | 20M 111 | | | | | | | | | |
| B 500 | | | | | | | | | | P45-R | | | | | | | | | | TB24- 2 | | | | | | | | | | 20M 111 | | | | | | | | | |
| B 501 | | | | | | | | | | P45-S | | | | | | | | | | TB24- 5 | | | | | | | | | | 20M 111 | | | | | | | | | |
| B 502 | | | | | | | | | | 225 200 85 7 | | | | | | | | | | 400 370 85 7 | | | | | | | | | | | | | | | | | | | |
| B 502B | | | | | | | | | | E 30 | | | | | | | | | | SHLD B 502 | | | | | | | | | | 25M | | | | | | | | | |
| B 502L | | | | | | | | | | P91-U* | | | | | | | | | | P21-B | | | | | | | | | | 16M 107 | | | | | | | | | |
| B 502R | | | | | | | | | | P91-U | | | | | | | | | | P21-A | | | | | | | | | | 16M 107 | | | | | | | | | |
| B 504 | | | | | | | | | | P99-T | | | | | | | | | | P24-V | | | | | | | | | | 25M | | | | | | | | | |
| B 505 | | | | | | | | | | P99-N | | | | | | | | | | P24-Y | | | | | | | | | | 25M | | | | | | | | | |
| B 506 | | | | | | | | | | P34-D* | | | | | | | | | | P24-A* | | | | | | | | | | 25M | | | | | | | | | |
| B 507 | | | | | | | | | | DELETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | | 1900943 | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR AR | | | | | | | | | | SHEET 64 OF 188 | | | | | | | | | |

GMI

WIRING HARNESS B

AR

1900943

| CONDUCTOR | | | FROM | | | | | TO | | | | |
|---|----------|---------------|--------------------|----------|----------|----------|---|--------------------|---|----------|---|----------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | |
| STEP WIRE OR JACKET | | | TERMINATION SPEC | | | | | TERMINATION SPEC | | | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| B 508 | 42 | P99-A* | 25N | | | | | P25-B* | 25N | | | |
| B 509 | 41 | P34-J | 25N | | | | | P25-V | 25N | | | |
| B 510 | 42 | P99-Q* | 25N | | | | | P24-R | 25N | | | |
| B 511 | 42 | P99-W* | 25N | | | | | P24-P | 25N | | | |
| B 512 | 42 | P99-AA | 25N | | | | | P24-KK | 25N | | | |
| B 513 | 42 | P99-U* | 25N | | | | | TB 8- 6 | 20N | 111 | | |
| B 514 | 42 | P99-G* | 25N | | | | | P24-D* | 25N | | | |
| B 515 | 46 | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 846 |
| B 515B | 41 | TB17- 68 | 16N | 107 | | | | SHLD B 515 | 25N | | | |
| B 515L | | P85-R* | 25N | | | | | TB17- 69CD | 16N | 107 | | |
| B 515R | | P85-P* | 25N | | | | | TB17- 69AB | 16N | 107 | | |
| B 516 | 46 | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 846 |
| B 516B | 41 | TB17- 59 | 16N | 107 | | | | SHLD B 516 | 25N | | | |
| B 516L | | P85-NN | 25N | | | | | TB17- 60CD | 16N | 107 | | |
| B 516R | | P85-NN | 25N | | | | | TB17- 60AB | 16N | 107 | | |
| B 517 | 46 | | 225 | 200 | 85 | 7 | | | 225 | 200 | 48 | 52 845 |
| B 517B | 41 | E 41 | 25N | | | | | SHLD B 517 | 25N | | | |
| B 517L | | P10-K* | 25N | | | | | J 4-B | 25N | | | |
| <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> | | | | | | | <div> <div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</div> <div>SCALE-NONE</div> </div> | | <div> <div>SIZE</div> <div>A</div> </div> | | <div> <div>1900943</div> <div>REV LTR AR</div> </div> | |
| | | | | | | | | | | | SHEET 65 OF 188 | |

GMI

WIRING HARNESS B

AR

1900943

| CONDUCTOR | | | FROM | | | | | TO | | | | | |
|---|----|--|--------------------|-----|-----|-----|---|--|-----|------------------------------|-----|--------------------|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | |
| NUMBER | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | |
| ITEM NO. | | | ITEM NO. | | | | | ITEM NO. | | | | | |
| B 517R | | | P10-I* | 25M | | | | J 4-A | 25M | | | | |
| B 518 | 44 | | | 225 | 200 | 85 | 7 | | 225 | 200 | 48 | 52 845 | |
| B 518B | 41 | | E 41 | 25M | | | | SHLD B 518 | 25M | | | | |
| B 518L | | | P10-Z | 25M | | | | J 4-E | 25M | | | | |
| B 518R | | | P10-Y | 25M | | | | J 4-D | 25M | | | | |
| B 519 | 44 | | | 225 | 200 | 85 | 7 | | 225 | 200 | 48 | 52 846 | |
| B 519B | 41 | | E 41 | 25M | | | | SHLD B 519 | 25M | | | | |
| B 519L | | | P85-GG | 25M | | | | J 4-H | 25M | | | | |
| B 519R | | | P85-FF | 25M | | | | J 4-G | 25M | | | | |
| B 520 | 44 | | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 846 | |
| B 520B | 41 | | TB17- 62 | 16M | | 107 | | SHLD B 520 | 25M | | | | |
| B 520L | | | P84-NN | 25M | | | | TB17- 61CD | 16M | | 107 | | |
| B 520R | | | P84-NN | 25M | | | | TB17- 61AB | 16M | | 107 | | |
| B 521 | 44 | | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 846 | |
| B 521B | 41 | | TB17- 62 | 16M | | 107 | | SHLD B 521 | 25M | | | | |
| B 521L | | | P 9-NN | 25M | | | | TB17- 63CD | 16M | | 107 | | |
| B 521R | | | P 9-NN | 25M | | | | TB17- 63AB | 16M | | 107 | | |
| B 522 | 44 | | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 846 | |
| <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> | | | | | | | | <div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</div> <div>SCALE-NONE</div> | | <div>SIZE</div> <div>A</div> | | <div>1900943</div> | |
| | | | | | | | | REV LTR | | AR | | SHEET 66 OF 188 | |

| GMI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 522B | 41 | | 16N | | | | | | | 107 | | | | | | | | | | SHLD B 522 | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|-------------|-----|---|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 526R | | P 9-FF | 25N | | | J 4-N | 25N | | |
| B 527 | 44 | | 225 200 85 | 7 | | | 225 200 48 52 846 | | |
| B 527B | 41 | E 41 | 25N | | | SHLD B 527 | 25N | | |
| B 527L | | P86-GG | 25N | | | J 4-T | 25N | | |
| B 527R | | P86-FF | 25N | | | J 4-S | 25N | | |
| B 528 | 44 | | 225 200 85 | 7 | | | 225 200 48 52 846 | | |
| B 528B | 41 | E 41 | 25N | | | SHLD B 528 | 25N | | |
| B 528L | | P83-J* | 25N | | | J 4-J* | 25N | | |
| B 528R | | P83-H* | 25N | | | J 4-V | 25N | | |
| B 529 | 44 | | 225 200 85 | 7 | | | 225 200 48 52 846 | | |
| B 529B | 41 | E 41 | 25N | | | SHLD B 529 | 25N | | |
| B 529L | | P83-GG | 25N | | | J 4-N* | 25N | | |
| B 529R | | P83-FF | 25N | | | J 4-M* | 25N | | |
| B 530 | 44 | | 225 200 48 52 846 | | | | 400 370 48 52 846 | | |
| B 530A | 41 | SHLD B 530 | 25N | | | E 29 | 25N | | |
| B 530L | | P20-P* | 25N | | | TB20- 76CD | 16N 107 | | |
| B 530R | | P20-Q* | 25N | | | TB20- 76AB | 16N 107 | | |
| B 531 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 68 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 531B | 41 | TB19- 27 | 16N 107 | | | SHLD B 531 | 25N | | |
| B 531L | | P65-F* | 25N | | | TB19- 26CD | 16N 107 | | |
| B 531R | | P65-F | 25N | | | TB19- 26AB | 16N 107 | | |
| B 532 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 532B | 41 | TB19- 24 | 16N 107 | | | SHLD B 532 | 25N | | |
| B 532L | | P65-C* | 25N | | | TB19- 25CD | 16N 107 | | |
| B 532R | | P65-C | 25N | | | TB19- 25AB | 16N 107 | | |
| B 533 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 533B | 41 | TB18- 9 | 16N 107 | | | SHLD B 533 | 25N | | |
| B 533L | | P65-G* | 25N | | | TB18- 8CD | 16N 107 | | |
| B 533R | | P65-G | 25N | | | TB18- 8AB | 16N 107 | | |
| B 534 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 534B | 41 | TB20- 18 | 16N 107 | | | SHLD B 534 | 25N | | |
| B 534L | | P 9-CC | 25N | | | TB20- 19CD | 16N 107 | | |
| B 534R | | P 9-BB | 25N | | | TB20- 19AB | 16N 107 | | |
| B 535 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 535B | 41 | TB20- 12 | 16N 107 | | | SHLD B 535 | 25N | | |
| B 535L | | P86-CC | 25N | | | TB20- 11CD | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 69 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 535R | | P86-BB | 25N | | | TB20- 11AB | 16N 107 | | |
| B 536 | | DELETED | | | | | | | |
| B 536A | | DELETED | | | | | | | |
| B 536L | | DELETED | | | | | | | |
| B 536R | | DELETED | | | | | | | |
| B 537 | | DELETED | | | | | | | |
| B 537A | | DELETED | | | | | | | |
| B 537L | | DELETED | | | | | | | |
| B 537R | | DELETED | | | | | | | |
| B 538 | 41 | P82-HH | 25N | | | TB24- 2 | 20N 111 | | |
| B 539 | 41 | P82-JJ | 25N | | | TB24- 5 | 20N 111 | | |
| B 540 | 41 | P82-KK | 25N | | | TB24- 8 | 20N 111 | | |
| B 541 | 42 | P36-NH | 25N | | | TB18- 98AB | 16N 107 | | |
| B 542 | 42 | P36-LL | 25N | | | TB18- 97CD | 16N 107 | | |
| B 543 | 17B | E 80 | 40N 183 | | | TB23- 9 | 40N 179 | | |
| B 544 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 544B | 41 | TB18- 52 | 16N 107 | | | SHLD B 544 | 25N | | |
| B 544L | | P10-X* | 25N | | | TB18- 53CD | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 70 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 544R | | P10-W* | 25N | | | TB18- 53AB | 16N 107 | | |
| B 545 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 545B | 41 | TB18- 55 | 16N 107 | | | SHLD B 545 | 25N | | |
| B 545L | | P10-Z* | 25N | | | TB18- 56CD | 16N 107 | | |
| B 545R | | P10-Y* | 25N | | | TB18- 56AB | 16N 107 | | |
| B 546 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 546B | 41 | TB18- 58 | 16N 107 | | | SHLD B 546 | 25N | | |
| B 546L | | P10-CC | 25N | | | TB18- 57CD | 16N 107 | | |
| B 546R | | P10-BB | 25N | | | TB18- 57AB | 16N 107 | | |
| B 547 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 547B | 41 | TB18- 49 | 16N 107 | | | SHLD B 547 | 25N | | |
| B 547L | | P10-EE | 25N | | | TB18- 50CD | 16N 107 | | |
| B 547R | | P10-DD | 25N | | | TB18- 50AB | 16N 107 | | |
| B 548 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 548B | 41 | TB18- 52 | 16N 107 | | | SHLD B 548 | 25N | | |
| B 548L | | P85-Z* | 25N | | | TB18- 51CD | 16N 107 | | |
| B 548R | | P85-Y* | 25N | | | TB18- 51AB | 16N 107 | | |
| B 549 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 71 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|----------------------|---------------|-------------|-----|---|---------------|----------|-----|
| CONDUCTOR | | FROM | | | | TO | | | | | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 549B | 41 | 16M | TB18- 55 | 107 | | SHLD B 549 | 25M | | | | | | |
| B 549L | | 25M | P84-X* | | | TB18- 54CD | 16M | 107 | | | | | |
| B 549R | | 25M | P84-W* | | | TB18- 54AB | 16M | 107 | | | | | |
| B 550 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 550B | 41 | 16M | TB18- 61 | 107 | | SHLD B 550 | 25M | | | | | | |
| B 550L | | 25M | P86-Z* | | | TB18- 60CD | 16M | 107 | | | | | |
| B 550R | | 25M | P86-Y* | | | TB18- 60AB | 16M | 107 | | | | | |
| B 551 | 14 | 25M | P33-A | | | TB25- 9 | 40M | 111 | | | | | |
| B 552 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 552B | 41 | 16M | TB17- 74 | 107 | | SHLD B 552 | 25M | | | | | | |
| B 552L | | 25M | P85-R | | | TB17- 73CD | 16M | 107 | | | | | |
| B 552R | | 25M | P85-P | | | TB17- 73AB | 16M | 107 | | | | | |
| B 553 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 553B | 41 | 16M | TB17- 71 | 107 | | SHLD B 553 | 25M | | | | | | |
| B 553L | | 25M | P85-X | | | TB17- 70CD | 16M | 107 | | | | | |
| B 553R | | 25M | P85-W | | | TB17- 70AB | 16M | 107 | | | | | |
| B 554 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 554B | 41 | 16M | TB17- 74 | 107 | | SHLD B 554 | 25M | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 72 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|----------------------|---------------|-------------|-----|---|---------------|----------|-----|
| CONDUCTOR | | FROM | | | | TO | | | | | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 554L | | 25M | P84-M | | | TB17- 75CD | 16M | 107 | | | | | |
| B 554R | | 25M | P84-M | | | TB17- 75AB | 16M | 107 | | | | | |
| B 555 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 555B | 41 | 16M | TB17- 80 | 107 | | SHLD B 555 | 25M | | | | | | |
| B 555L | | 25M | P85-J* | | | TB17- 79CD | 16M | 107 | | | | | |
| B 555R | | 25M | P85-H* | | | TB17- 79AB | 16M | 107 | | | | | |
| B 556 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 556B | 41 | 16M | TB17- 77 | 107 | | SHLD B 556 | 25M | | | | | | |
| B 556L | | 25M | P 9-R | | | TB17- 76CD | 16M | 107 | | | | | |
| B 556R | | 25M | P 9-P | | | TB17- 76AB | 16M | 107 | | | | | |
| B 557 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 557B | 41 | 16M | TB20- 72 | 107 | | SHLD B 557 | 25M | | | | | | |
| B 557L | | 25M | P82-F | | | TB20- 70 | 16M | 107 | | | | | |
| B 557R | | 25M | P82-G | | | TB20- 71 | 16M | 107 | | | | | |
| B 558 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 558B | 41 | 16M | TB20- 80 | 107 | | SHLD B 558 | 25M | | | | | | |
| B 558L | | 25M | P82-B | | | TB20- 78 | 16M | 107 | | | | | |
| B 558R | | 25M | P82-C | | | TB20- 79 | 16M | 107 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 73 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|----------------------|---------------|-------------|-----|---|---------------|----------|-----|
| CONDUCTOR | | FROM | | | | TO | | | | | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 559 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 559B | 41 | 16M | TB20- 21 | 107 | | SHLD B 559 | 25M | | | | | | |
| B 559L | | 25M | P 9-M | | | TB20- 20CD | 16M | 107 | | | | | |
| B 559R | | 25M | P 9-M | | | TB20- 20AB | 16M | 107 | | | | | |
| B 560 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 560B | 41 | 16M | TB18- 64 | 107 | | SHLD B 560 | 25M | | | | | | |
| B 560L | | 25M | P10-JJ | | | TB18- 65CD | 16M | 107 | | | | | |
| B 560R | | 25M | P10-MH | | | TB18- 65AB | 16M | 107 | | | | | |
| B 561 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 561B | 41 | 16M | TB18- 67 | 107 | | SHLD B 561 | 25M | | | | | | |
| B 561L | | 25M | P10-GG | | | TB18- 68CD | 16M | 107 | | | | | |
| B 561R | | 25M | P10-FF | | | TB18- 68AB | 16M | 107 | | | | | |
| B 562 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 562B | 41 | 16M | TB18- 67 | 107 | | SHLD B 562 | 25M | | | | | | |
| B 562L | | 25M | P85-X* | | | TB18- 66CD | 16M | 107 | | | | | |
| B 562R | | 25M | P85-W* | | | TB18- 66AB | 16M | 107 | | | | | |
| B 563 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 563B | 41 | 16M | TB18- 70 | 107 | | SHLD B 563 | 25M | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 74 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|----------------------|---------------|-------------|-----|---|---------------|----------|-----|
| CONDUCTOR | | FROM | | | | TO | | | | | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 563L | | 25M | P84-Z* | | | TB18- 69CD | 16M | 107 | | | | | |
| B 563R | | 25M | P84-Y* | | | TB18- 69AB | 16M | 107 | | | | | |
| B 564 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 564B | 41 | 16M | TB18- 64 | 107 | | SHLD B 564 | 25M | | | | | | |
| B 564L | | 25M | P 9-X* | | | TB18- 63CD | 16M | 107 | | | | | |
| B 564R | | 25M | P 9-W* | | | TB18- 63AB | 16M | 107 | | | | | |
| B 565 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 565B | 41 | 16M | TB18- 58 | 107 | | SHLD B 565 | 25M | | | | | | |
| B 565L | | 25M | P 9-Z* | | | TB18- 59CD | 16M | 107 | | | | | |
| B 565R | | 25M | P 9-Y* | | | TB18- 59AB | 16M | 107 | | | | | |
| B 566 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 566B | 41 | 16M | TB18- 61 | 107 | | SHLD B 566 | 25M | | | | | | |
| B 566L | | 25M | P86-X* | | | TB18- 62CD | 16M | 107 | | | | | |
| B 566R | | 25M | P86-W* | | | TB18- 62AB | 16M | 107 | | | | | |
| B 567 | 40 | 25M | P38-A | | | TB25- 6 | 20M | 111 | | | | | |
| B 569 | 44 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | | | | | |
| B 569B | 41 | 16M | TB20- 6 | 107 | | SHLD B 569 | 25M | | | | | | |
| B 569L | | 25M | P91-H* | | | TB20- 8CD | 16M | 107 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 75 OF 188 | | | |

| GHI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|--------|----------------------|---------------|-------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 569R | | | P91-M | 25N | | TB20- 8AB | 16N | 107 | | | | | | |
| B 570 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 570B | 41 | | TB21- 6 | 16N | 107 | | SHLD B 570 | 25N | | | | | | |
| B 570L | | | P91-M* | 25N | | TB21- 7CD | 16N | 107 | | | | | | |
| B 570R | | | P91-M | 25N | | TB21- 7AB | 16N | 107 | | | | | | |
| B 571 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 571B | 41 | | TB21- 9 | 16N | 107 | | SHLD B 571 | 25N | | | | | | |
| B 571L | | | P91-P* | 25N | | TB21- 8CD | 16N | 107 | | | | | | |
| B 571R | | | P91-P | 25N | | TB21- 8AB | 16N | 107 | | | | | | |
| B 572 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 572B | 41 | | TB19- 7 | 16N | 107 | | SHLD B 572 | 25N | | | | | | |
| B 572L | | | P65-E* | 25N | | TB19- 6CD | 16N | 107 | | | | | | |
| B 572R | | | P65-E | 25N | | TB19- 6AB | 16N | 107 | | | | | | |
| B 573 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 573B | 41 | | TB19- 27 | 16N | 107 | | SHLD B 573 | 25N | | | | | | |
| B 573L | | | P65-D* | 25N | | TB19- 28CD | 16N | 107 | | | | | | |
| B 573R | | | P65-D | 25N | | TB19- 28AB | 16N | 107 | | | | | | |
| B 574 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 76 OF 188 | | | | |

| GHI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|--------|----------------------|---------------|-------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 574B | 41 | | TB17- 83 | 16N | 107 | | SHLD B 574 | 25N | | | | | | |
| B 574L | | | P10-E* | 25N | | TB17- 84CD | 16N | 107 | | | | | | |
| B 574R | | | P10-D* | 25N | | TB17- 84AB | 16N | 107 | | | | | | |
| B 575 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 575B | 41 | | TB17- 86 | 16N | 107 | | SHLD B 575 | 25N | | | | | | |
| B 575L | | | P10-G* | 25N | | TB17- 85CD | 16N | 107 | | | | | | |
| B 575R | | | P10-F* | 25N | | TB17- 85AB | 16N | 107 | | | | | | |
| B 576 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 576B | 41 | | TB17- 83 | 16N | 107 | | SHLD B 576 | 25N | | | | | | |
| B 576L | | | P10-J* | 25N | | TB17- 82CD | 16N | 107 | | | | | | |
| B 576R | | | P10-H* | 25N | | TB17- 82AB | 16N | 107 | | | | | | |
| B 577 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 577B | 41 | | TB17- 80 | 16N | 107 | | SHLD B 577 | 25N | | | | | | |
| B 577L | | | P 9-J* | 25N | | TB17- 81CD | 16N | 107 | | | | | | |
| B 577R | | | P 9-H* | 25N | | TB17- 81AB | 16N | 107 | | | | | | |
| B 578 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 578B | 41 | | TB17- 88 | 16N | 107 | | SHLD B 578 | 25N | | | | | | |
| B 578L | | | P83-T* | 25N | | TB17- 89CD | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 77 OF 188 | | | | |

| GHI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|--------|----------------------|---------------|-------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 578R | | | P83-S* | 25N | | TB17- 89AB | 16N | 107 | | | | | | |
| B 579 | 40 | | P18-A | 25N | | TB25- 1 | 20N | 111 | | | | | | |
| B 580 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 580B | 41 | | TB20- 36 | 16N | 107 | | SHLD B 580 | 25N | | | | | | |
| B 580L | | | P85-CC | 25N | | TB20- 37CD | 16N | 107 | | | | | | |
| B 580R | | | P85-BB | 25N | | TB20- 37AB | 16N | 107 | | | | | | |
| B 581 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 581B | 41 | | TB20- 39 | 16N | 107 | | SHLD B 581 | 25N | | | | | | |
| B 581L | | | P84-CC | 25N | | TB20- 38CD | 16N | 107 | | | | | | |
| B 581R | | | P84-BB | 25N | | TB20- 38AB | 16N | 107 | | | | | | |
| B 582 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 582B | 41 | | TB20- 36 | 16N | 107 | | SHLD B 582 | 25N | | | | | | |
| B 582L | | | P83-CC | 25N | | TB20- 35CD | 16N | 107 | | | | | | |
| B 582R | | | P83-BB | 25N | | TB20- 35AB | 16N | 107 | | | | | | |
| B 583 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 583B | 41 | | TB19- 36 | 16N | 107 | | SHLD B 583 | 25N | | | | | | |
| B 583L | | | P86-G* | 25N | | TB19- 40CD | 16N | 107 | | | | | | |
| B 583R | | | P86-F* | 25N | | TB19- 51AB | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 78 OF 188 | | | | |

| GHI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|---------------|----------------------|---------------|-------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B 584 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 584B | 41 | | TB20- 15 | 16N | 107 | | SHLD B 584 | 25N | | | | | | |
| B 584L | | | P35-M | 25N | | TB20- 20CD | 16N | 107 | | | | | | |
| B 584R | | | P35-N | 25N | | TB20- 20AB | 16N | 107 | | | | | | |
| B 585 | 42 | | P64-CC | 25N | | TB20- 14AB | 16N | 107 | | | | | | |
| B 586 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 586B | 41 | | TB18- 75 | 16N | 107 | | SHLD B 586 | 25N | | | | | | |
| B 586L | | | P 9-JJ | 25N | | TB18- 74CD | 16N | 107 | | | | | | |
| B 586R | | | P 9-MH | 25N | | TB18- 74AB | 16N | 107 | | | | | | |
| B 587 | 44 | | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | | | |
| B 587B | 41 | | TB18- 78 | 16N | 107 | | SHLD B 587 | 25N | | | | | | |
| B 587L | | | P86-JJ | 25N | | TB18- 76 | 16N | 107 | | | | | | |
| B 587R | | | P86-MH | 25N | | TB18- 77 | 16N | 107 | | | | | | |
| B 588 | 42 | | P34-T | 25N | | TB17- 2AB | 16N | 107 | | | | | | |
| B 589 | 65 | | | 225 | 200 86 87 856 | | | 225 200 86 87 856 | | | | | | |
| B 589A | 41 | | SHLD B 589 | 25N | | TB27- 6B | 16N | 107 | | | | | | |
| B 589B | 41 | | P14-G | 25N | | SHLD B 589 | 25N | | | | | | | |
| B 589E | | | TB27- 5B | 16N | 107 | P14-F | 25N | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 79 OF 188 | | | | |

641

WIRING HARNESS B

AR

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| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CONDUCTOR | | | | FROM | | | | | | | | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | | | |
| NUMBER | | ITEM NO. | | STEP WIRE OR JACKET CIRCUIT POINT | | T | | ITEM NO. | | STEP WIRE OR JACKET CIRCUIT POINT | | T | | ITEM NO. | | | | | | | | | |
| B 606 | 42 | | | P40-F* | 25N | | | | | P63-W | 25N | | | | | | | | | | | | |
| B 607 | 42 | | | P40-G* | 25N | | | | | P63-V | 25N | | | | | | | | | | | | |
| B 608 | 42 | | | P40-H* | 25N | | | | | P63-U | 25N | | | | | | | | | | | | |
| B 609 | 42 | | | P40-I* | 25N | | | | | P63-T | 25N | | | | | | | | | | | | |
| B 610 | 42 | | | P40-J* | 25N | | | | | P63-S | 25N | | | | | | | | | | | | |
| B 611 | 42 | | | P40-K* | 25N | | | | | P63-R | 25N | | | | | | | | | | | | |
| B 612 | 42 | | | P40-M* | 25N | | | | | P63-CC | 25N | | | | | | | | | | | | |
| B 613 | 42 | | | P39-A | 25N | | | | | P64-B | 25N | | | | | | | | | | | | |
| B 614 | 42 | | | P39-B | 25N | | | | | P64-C | 25N | | | | | | | | | | | | |
| B 615 | 42 | | | P39-S | 25N | | | | | P64-U | 25N | | | | | | | | | | | | |
| B 616 | 42 | | | P39-T | 25N | | | | | P64-V | 25N | | | | | | | | | | | | |
| B 617 | 42 | | | P39-C | 25N | | | | | P64-N | 25N | | | | | | | | | | | | |
| B 618 | 42 | | | P39-D | 25N | | | | | P64-D | 25N | | | | | | | | | | | | |
| B 619 | 42 | | | P39-E | 25N | | | | | P64-E | 25N | | | | | | | | | | | | |
| B 620 | 42 | | | P39-F | 25N | | | | | P64-F | 25N | | | | | | | | | | | | |
| B 621 | 42 | | | P39-G | 25N | | | | | P64-G | 25N | | | | | | | | | | | | |
| B 622 | 42 | | | P39-H | 25N | | | | | P64-H | 25N | | | | | | | | | | | | |
| B 623 | 42 | | | P39-J | 25N | | | | | P64-J | 25N | | | | | | | | | | | | |
| 1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE | | 1900943 | | | | | | | |
| | | | | | | | | | | A | | | | REV LTR AR | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | AR | | SHEET 81 OF 188 | | | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|-----|--|----------------------|-----|-----|----|----|----------------------|-----|---|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | TERMINATION SPEC | | | | | TERMINATION SPEC | | | | | | |
| NO. | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B 656R | | | P86-S* | 25N | | | | TB17- 92AB | 16N | 107 | | | | |
| B 657 | 40 | | P 2-A | 25N | | | | TB25- 3 | 20N | 111 | | | | |
| B 658 | 40 | | P50-A | 25N | | | | TB25- 3 | 20N | 111 | | | | |
| B 659 | 42 | | P36-CC | 25N | | | | P25-A* | 25N | | | | | |
| B 660 | 42 | | P36-Z* | 25N | | | | P24-T* | 25N | | | | | |
| B 661 | 42 | | P36-H* | 25N | | | | P24-T* | 25N | | | | | |
| B 662 | 178 | | TB25- 14 | 40N | 175 | | | E 1 | 40N | 175 | | | | |
| B 663 | 44 | | | 225 | 200 | 48 | 52 | 846 | | 400 | 370 | 48 | 52 | 846 |
| B 663B | 41 | | TB18- B1 | 16N | 107 | | | SHLD B 663 | 25N | | | | | |
| B 663L | | | P85-T* | 25N | | | | TB18- 82CD | 16N | 107 | | | | |
| B 663R | | | P85-S* | 25N | | | | TB18- 82AB | 16N | 107 | | | | |
| B 664 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 664B | 41 | | TB18- 84 | 16N | 107 | | | SHLD B 664 | 25N | | | | | |
| B 664L | | | P10-R* | 25N | | | | TB18- 85CD | 16N | 107 | | | | |
| B 664R | | | P10-P* | 25N | | | | TB18- 85AB | 16N | 107 | | | | |
| B 665 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 665B | 41 | | TB18- 87 | 16N | 107 | | | SHLD B 665 | 25N | | | | | |
| B 665L | | | P10-T* | 25N | | | | TB18- 86CD | 16N | 107 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 84 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|--|----------------------|-----|-----|----|----|----------------------|-----|---|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | TERMINATION SPEC | | | | | TERMINATION SPEC | | | | | | |
| NO. | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B 665R | | | P10-S* | 25N | | | | TB18- 86AB | 16N | 107 | | | | |
| B 666 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 666B | 41 | | TB18- 84 | 16N | 107 | | | SHLD B 666 | 25N | | | | | |
| B 666L | | | P84-R* | 25N | | | | TB18- 83CD | 16N | 107 | | | | |
| B 666R | | | P84-P* | 25N | | | | TB18- 83AB | 16N | 107 | | | | |
| B 667 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 667B | 41 | | TB18- 90 | 16N | 107 | | | SHLD B 667 | 25N | | | | | |
| B 667L | | | P83-C* | 25N | | | | TB18- 89CD | 16N | 107 | | | | |
| B 667R | | | P83-B* | 25N | | | | TB18- 89AB | 16N | 107 | | | | |
| B 668 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 668B | 41 | | TB18- 87 | 16N | 107 | | | SHLD B 668 | 25N | | | | | |
| B 668L | | | P83-N* | 25N | | | | TB18- 88CD | 16N | 107 | | | | |
| B 668R | | | P83-M* | 25N | | | | TB18- 88AB | 16N | 107 | | | | |
| B 669 | 44 | | | 225 | 200 | 48 | 52 | 845 | | 225 | 200 | 85 | 7 | |
| B 669A | 41 | | SHLD B 669 | 25N | | | | E 3B | 25N | | | | | |
| B 669L | | | P65-K* | 25N | | | | P46-C | 25N | | | | | |
| B 669R | | | P65-K | 25N | | | | P46-B | 25N | | | | | |
| B 670 | 42 | | P63-AA | 25N | | | | P47-U | 25N | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 85 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|--|----------------------|-----|-----|----|----|----------------------|-----|---|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | TERMINATION SPEC | | | | | TERMINATION SPEC | | | | | | |
| NO. | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B 671 | 42 | | P63-Z* | 25N | | | | P47-Y | 25N | | | | | |
| B 672 | 42 | | P63-BB | 25N | | | | P47-T | 25N | | | | | |
| B 673 | 42 | | P92-V | 25N | | | | P24-Z* | 25N | | | | | |
| B 674 | 42 | | P92-U | 25N | | | | P24-Y* | 25N | | | | | |
| B 675 | 42 | | P92-T | 25N | | | | P24-X* | 25N | | | | | |
| B 676 | 42 | | P92-R | 25N | | | | P24-BB | 25N | | | | | |
| B 677 | 42 | | P92-S | 25N | | | | P24-AA | 25N | | | | | |
| B 678 | 42 | | P96-A* | 25N | | | | P24-W* | 25N | | | | | |
| B 679 | 42 | | P96-B* | 25N | | | | P24-V* | 25N | | | | | |
| B 680 | 42 | | P96-C* | 25N | | | | P24-U* | 25N | | | | | |
| B 681 | 42 | | P92-D | 25N | | | | P24-G* | 25N | | | | | |
| B 682 | 42 | | P92-X | 25N | | | | P24-JJ | 25N | | | | | |
| B 683 | 42 | | P34-B* | 25N | | | | TB20- 40AB | 16N | 107 | | | | |
| B 684 | 42 | | P34-C* | 25N | | | | TB20- 40CD | 16N | 107 | | | | |
| B 685 | 65 | | | 52 | 25 | 90 | 91 | 7 | | 225 | 200 | 86 | 87 | 856 |
| B 685B | 41 | | TB22- 37CD | 16N | 107 | | | SHLD B 685 | 25N | | | | | |
| B 685E | | | P66-G1 | 11N | 89 | | | TB22- 37AB | 16N | 107 | | | | |
| B 685K | | | P66-G2 | | | | | SHLD B 685 | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 86 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|--|----------------------|-----|-----|----|---|----------------------|-----|---|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | TERMINATION SPEC | | | | | TERMINATION SPEC | | | | | | |
| NO. | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B 686 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 686B | 41 | | TB20- 49 | 16N | 107 | | | SHLD B 686 | 25N | | | | | |
| B 686L | | | P10-L | 25N | | | | TB20- 50CD | 16N | 107 | | | | |
| B 686R | | | P10-K | 25N | | | | TB20- 50AB | 16N | 107 | | | | |
| B 687 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 687B | 41 | | TB20- 52 | 16N | 107 | | | SHLD B 687 | 25N | | | | | |
| B 687L | | | P10-X | 25N | | | | TB20- 53CD | 16N | 107 | | | | |
| B 687R | | | P10-W | 25N | | | | TB20- 53AB | 16N | 107 | | | | |
| B 688 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 688B | 41 | | TB20- 55 | 16N | 107 | | | SHLD B 688 | 25N | | | | | |
| B 688L | | | P85-L | 25N | | | | TB20- 56CD | 16N | 107 | | | | |
| B 688R | | | P85-K | 25N | | | | TB20- 56AB | 16N | 107 | | | | |
| B 692 | 44 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 692B | 41 | | TB20- 58 | 16N | 107 | | | SHLD B 692 | 25N | | | | | |
| B 692L | | | P86-X | 25N | | | | TB20- 59CD | 16N | 107 | | | | |
| B 692R | | | P86-W | 25N | | | | TB20- 59AB | 16N | 107 | | | | |
| B 693 | | | DELETED | | | | | | | | | | | |
| B 693B | | | DELETED | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 87 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|--|----|--|---------------------|-----|----|----|----|---------------------|------------|-----|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STEP WIRE OR JACKET | | | | | STEP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | | |
| TERMINATION SPEC. | | | TERMINATION SPEC. | | | | | TERMINATION SPEC. | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | | |
| B 693L | | | DELETED | | | | | | | | | | | |
| B 693R | | | DELETED | | | | | | | | | | | |
| B 694 | | | DELETED | | | | | | | | | | | |
| B 694B | | | DELETED | | | | | | | | | | | |
| B 694L | | | DELETED | | | | | | | | | | | |
| B 694R | | | DELETED | | | | | | | | | | | |
| B 695 | | | DELETED | | | | | | | | | | | |
| B 695B | | | DELETED | | | | | | | | | | | |
| B 695L | | | DELETED | | | | | | | | | | | |
| B 695R | | | DELETED | | | | | | | | | | | |
| B 696 | 65 | | | 52 | 23 | 90 | 91 | 7 | | 225 | 200 | 85 | 87 | 856 |
| B 696B | 41 | | P26-S | 25N | | | | | SHLD B 696 | 25N | | | | |
| B 696C | | | P93-F1 | 11N | 89 | | | | P26-R | 25N | | | | |
| B 696X | | | P93-F2 | | | | | | SHLD B 696 | | | | | |
| B 697 | 65 | | | 50 | 31 | | | 7 | | 52 | 23 | 90 | 91 | 7 |
| B 697B | | | P56-M | 11Y | | | | | P62-M1 | 11N | 89 | | | |
| B 697X | | | P56-L | | | | | | P62-M2 | | | | | |
| B 698 | 65 | | | 50 | 31 | | | 7 | | 52 | 23 | 90 | 91 | 7 |
| <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> <div> <div>MANNED SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SCALE - NONE</div> <div>REV LTR AR</div> <div>SHEET 88 OF 188</div> </div> | | | | | | | | | | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|--|----|--|---------------------|-----|-----|----|---|---------------------|------------|-----|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STEP WIRE OR JACKET | | | | | STEP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | | |
| TERMINATION SPEC. | | | TERMINATION SPEC. | | | | | TERMINATION SPEC. | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | | |
| B 698E | | | P55-M | 11Y | | | | | P62-J1 | 11N | 89 | | | |
| B 698X | | | P55-L | | | | | | P62-J2 | | | | | |
| B 700B | 41 | | TB22- 21 | 16N | 107 | | | | SHLD B 700 | 25N | | | | |
| B 700L | | | P85-T | 25N | | | | | TB22- 22CD | 16N | 107 | | | |
| B 700R | | | P85-S | 25N | | | | | TB22- 22AB | 16N | 107 | | | |
| B 701 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 701B | 41 | | TB18- 96 | 16N | 107 | | | | SHLD B 701 | 25N | | | | |
| B 701L | | | P85-M* | 25N | | | | | TB18- 95CD | 16N | 107 | | | |
| B 701R | | | P85-M* | 25N | | | | | TB18- 95AB | 16N | 107 | | | |
| B 702 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 702B | 41 | | TB22- 21 | 16N | 107 | | | | SHLD B 702 | 25N | | | | |
| B 702L | | | P84-T | 25N | | | | | TB22- 20CD | 16N | 107 | | | |
| B 702R | | | P84-S | 25N | | | | | TB22- 20AB | 16N | 107 | | | |
| B 703 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 703B | 41 | | TB18- 93 | 16N | 107 | | | | SHLD B 703 | 25N | | | | |
| B 703L | | | P84-M* | 25N | | | | | TB18- 94CD | 16N | 107 | | | |
| B 703R | | | P84-M* | 25N | | | | | TB18- 94AB | 16N | 107 | | | |
| B 704 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> <div> <div>MANNED SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SCALE - NONE</div> <div>REV LTR AR</div> <div>SHEET 89 OF 188</div> </div> | | | | | | | | | | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|--|----|--|---------------------|-----|-----|----|---|---------------------|------------|-----|-----|----|----|-----|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | STEP WIRE OR JACKET | | | | | STEP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | | |
| TERMINATION SPEC. | | | TERMINATION SPEC. | | | | | TERMINATION SPEC. | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | | |
| B 704B | 41 | | TB22- 30 | 16N | 107 | | | | SHLD B 704 | 25N | | | | |
| B 704L | | | P84-G | 25N | | | | | TB22- 29CD | 16N | 107 | | | |
| B 704R | | | P84-F | 25N | | | | | TB22- 29AB | 16N | 107 | | | |
| B 705 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 705B | 41 | | TB22- 24 | 16N | 107 | | | | SHLD B 705 | 25N | | | | |
| B 705L | | | P 9-V | 25N | | | | | TB22- 25CD | 16N | 107 | | | |
| B 705R | | | P 9-U | 25N | | | | | TB22- 25AB | 16N | 107 | | | |
| B 706 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 706B | 41 | | TB18- 93 | 16N | 107 | | | | SHLD B 706 | 25N | | | | |
| B 706L | | | P 9-N* | 25N | | | | | TB18- 92CD | 16N | 107 | | | |
| B 706R | | | P 9-M* | 25N | | | | | TB18- 92AB | 16N | 107 | | | |
| B 707 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 707B | 41 | | TB22- 27 | 16N | 107 | | | | SHLD B 707 | 25N | | | | |
| B 707L | | | P 9-G | 25N | | | | | TB22- 28CD | 16N | 107 | | | |
| B 707R | | | P 9-F | 25N | | | | | TB22- 28AB | 16N | 107 | | | |
| B 708 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 |
| B 708B | 41 | | TB22- 27 | 16N | 107 | | | | SHLD B 708 | 25N | | | | |
| B 708L | | | P86-G | 25N | | | | | TB22- 26CD | 16N | 107 | | | |
| <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> <div> <div>MANNED SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SCALE - NONE</div> <div>REV LTR AR</div> <div>SHEET 90 OF 188</div> </div> | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|------------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|------------|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| GMI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | STEP WIRE OR JACKET | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 708R | | | | | | | | | | P86-F | | | | | | | | | | 25N | | | | | | | | | | TB22- 26AB | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 709 | | | | | | | | | | 46 | | | | | | | | | | 225 | | | | | | | | | | 200 | | | | | | | | | | 85 | | | | | | | | | | 7 | | | | | | | | | | 400 | | | | | | | | | | 370 | | | | | | | | | | 48 | | | | | | | | | | 52 | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 709B | | | | | | | | | | 41 | | | | | | | | | | TB22- 24 | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | SHLD B 709 | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 709L | | | | | | | | | | | | | | | | | | | | P86-V | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | TB22- 25CD | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 709R | | | | | | | | | | | | | | | | | | | | P86-U | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | TB22- 23AB | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 710 | | | | | | | | | | 46 | | | | | | | | | | | | | | | | | | | | 225 | | | | | | | | | | 200 | | | | | | | | | | 85 | | | | | | | | | | 7 | | | | | | | | | | 400 | | | | | | | | | | 370 | | | | | | | | | | 48 | | | | | | | | | | 52 | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | |
| B 710B | | | | | | | | | | 41 | | | | | | | | | | TB18- 90 | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | SHLD B 710 | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 710L | | | | | | | | | | | | | | | | | | | | P86-M* | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | TB18- 91CD | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 710R | | | | | | | | | | | | | | | | | | | | P86-M* | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | TB18- 91AB | | | | | | | | | | 16N | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 711 | | | | | | | | | | 65 | | | | | | | | | | | | | | | | | | | | 52 | | | | | | | | | | 23 | | | | | | | | | | 90 | | | | | | | | | | 91 | | | | | | | | | | 7 | | | | | | | | | | 52 | | | | | | | | | | 23 | | | | | | | | | | 90 | | | | | | | | | | 91 | | | | | | | | | | 7 | | | | | | | | | |
| B 711E | | | | | | | | | | | | | | | | | | | | P93-B1 | | | | | | | | | | 11N | | | | | | | | | | 89 | | | | | | | | | | P 7-DOM | | | | | | | | | | 11N | | | | | | | | | | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 711X | | | | | | | | | | | | | | | | | | | | P93-B2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P 7-DOL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 712 | | | | | | | | | | 42 | | | | | | | | | | P64-GG | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | P 5-K* | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 713 | | | | | | | | | | 65 | | | | | | | | | | | | | | | | | | | | 225 | | | | | | | | | | 200 | | | | | | | | | | 86 | | | | | | | | | | 87 | | | | | | | | | | 856 | | | | | | | | | | 52 | | | | | | | | | | 23 | | | | | | | | | | 90 | | | | | | | | | | 91 | | | | | | | | | | 7 | | | | | | | | | |
| B 713A | | | | | | | | | | 41 | | | | | | | | | | SHLD B 713 | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | P63-CC | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 713E | | | | | | | | | | | | | | | | | | | | P63-DD | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | P 7-FOM | | | | | | | | | | 11N | | | | | | | | | | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 713X | | | | | | | | | | | | | | | | | | | | SHLD B 713 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P 7-FOL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 714 | | | | | | | | | | 65 | | | | | | | | | | | | | | | | | | | | 52 | | | | | | | | | | 23 | | | | | | | | | | 90 | | | | | | | | | | 91 | | | | | | | | | | 7 | | | | | | | | | | 52 | | | | | | | | | | 23 | | | | | | | | | | 90 | | | | | | | | | | 91 | | | | | | | | | | 7 | | | | | | | | | |
| 1 | | | | | | | | | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MAINED | | | | | | | | | | SIZE | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SPACECRAFT | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | HOUSTON, TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | SCALE: NONE | | | | | | | | | | REV: 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| GMI | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | |
|---|----------|---|---|----------------------|---------------|---|-----|-------------|----|-------|---|-----|--------------------|---|---|----------------------|---------------|-----|----|----|-----|-------|---|---|----------|---|---|-----|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | NO. | CUT WIRE OR SHIELD | | | | TERMINATION | | | | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | ITEM NO. | 1 | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 | 2 | 1 | SPEC. | 1 | | 2 | 1 | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 | 2 | | SPEC. | 1 | 2 | ITEM NO. | 1 | 2 | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 714E | | | | P69-A1 | | | 11M | | | 89 | | | | | P 7-A0H | | | 11M | | | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 714X | | | | P69-A2 | | | | | | | | | | | P 7-A0L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 715 | 65 | | | | | | 52 | 23 | 90 | 91 | 7 | | | | | | | 52 | 23 | 90 | 91 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 715E | | | | P93-A1 | | | 11M | | | 89 | | | | | P 7-B0H | | | 11M | | | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 715X | | | | P93-A2 | | | | | | | | | | | P 7-B0L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 716 | 42 | | | P64-V* | | | 25M | | | | | | | | P 5-FF | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 717 | 42 | | | P64-W* | | | 25M | | | | | | | | P 5-CC | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 718 | 42 | | | P64-X* | | | 25M | | | | | | | | P 5-DD | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 719 | 42 | | | P64-Y* | | | 25M | | | | | | | | P 5-W* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 720 | 42 | | | P64-Z* | | | 25M | | | | | | | | P 5-Y* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 721 | 42 | | | P64-AA | | | 25M | | | | | | | | P 5-AA | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 722 | 42 | | | P36-FF | | | 25M | | | | | | | | TB20- 8AB | | | 16M | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 723 | 42 | | | P36-KK | | | 25M | | | | | | | | TB21- 8AB | | | 16M | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 724 | 42 | | | P36-MM | | | 25M | | | | | | | | TB21- 7AB | | | 16M | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 725 | 41 | | | P82-P | | | 25M | | | | | | | | J 3-H* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 726 | 41 | | | P82-R | | | 25M | | | | | | | | J 3-Z* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 727 | 41 | | | P82-S | | | 25M | | | | | | | | J 3-Y* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 728 | 41 | | | P82-T | | | 25M | | | | | | | | J 3-X* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | | | | | SIZE | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | | | | REV LTR | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | SHEET 92 OF 188 | | | | | | | | | | | | | | |

| GMI | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CONDUCTOR | | | | FROM | | | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | NO. | | CUT WIRE OR SHIELD | | TERMINATION | | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ | |

GMI

WIRING HARNESS B

AR

1900943

| CONDUCTOR | | FROM | | | | | TO | | | | | | |
|---|----------|----------------------|---------------|-------------|-------|-----|---|---------------|--------------------|-------|-----------------|-----|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | NO. | CUT WIRE OR SHIELD | | TERMINATION | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | | | |
| B 737L | | P83-X | 25M | | | | TB20- 60CD | 16M | 107 | | | | |
| B 737R | | P83-W | 25M | | | | TB20- 60AB | 16M | 107 | | | | |
| B 738 | 41 | TB23- 10 | 20M | | 111 | | P16-T* | 25M | | | | | |
| B 739 | 41 | TB23- 10 | 20M | | 111 | | P15-T* | 25M | | | | | |
| B 740 | 41 | TB23- 10 | 20M | | 111 | | P14-T* | 25M | | | | | |
| B 741 | 41 | TB23- 11 | 20M | | 111 | | P17-T* | 25M | | | | | |
| B 742 | 46 | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 | 846 | |
| B 742B | 41 | TB19- 82 | 16M | | 107 | | SHLD B 742 | 25M | | | | | |
| B 742L | | P85-N | 25M | | | | TB19- 83CD | 16M | 107 | | | | |
| B 742R | | P85-M | 25M | | | | TB19- 83AB | 16M | 107 | | | | |
| B 743 | 46 | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 | 846 | |
| B 743B | 41 | TB19- 85 | 16M | | 107 | | SHLD B 743 | 25M | | | | | |
| B 743L | | P85-E* | 25M | | | | TB19- 86CD | 16M | 107 | | | | |
| B 743R | | P85-D* | 25M | | | | TB19- 86AB | 16M | 107 | | | | |
| B 744 | 46 | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 | 846 | |
| B 744B | 41 | TB19- 88 | 16M | | 107 | | SHLD B 744 | 25M | | | | | |
| B 744L | | P85-G* | 25M | | | | TB19- 87CD | 16M | 107 | | | | |
| B 744R | | P85-F* | 25M | | | | TB19- 87AB | 16M | 107 | | | | |
| <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> | | | | | | | <div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</div> <div>SIZE</div> <div>A</div> | | <div>1900943</div> | | | | |
| SCALE - NONE | | | | | | | REV LTR | | AR | | SHEET 94 OF 188 | | |

| GMI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | | | | | |
|---|----|--|--|---------------------|----|--|-----|--|-------------|------------------|--|---|--|---|------------|------|-----|-----|-------------|----|-----|--|--|---------|--|--|--|--|--|---------|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | STEP WIRE OR JACKET | | | | | SPEC. | | | | | STEP WIRE OR JACKET | | | | | SPEC. | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | |
| B 746 | 46 | | | | | | 225 | | 200 | 85 | | 7 | | | | 400 | | 370 | 48 | 52 | 846 | | | | | | | | | | | | | | | | | | | | | | |
| B 746B | 41 | | | TB19- | 85 | | 16M | | 107 | | | | | | SHLD B 746 | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 746L | | | | P 9-R* | | | 25M | | | | | | | | TB19- | 84CD | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 746R | | | | P 9-P* | | | 25M | | | | | | | | TB19- | 84AB | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 747 | 46 | | | | | | 225 | | 200 | 85 | | 7 | | | | 400 | | 370 | 48 | 52 | 846 | | | | | | | | | | | | | | | | | | | | | | |
| B 747B | 41 | | | TB19- | 88 | | 16M | | 107 | | | | | | SHLD B 747 | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 747L | | | | P83-EE | | | 25M | | | | | | | | TB19- | 89CD | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 747R | | | | P83-DD | | | 25M | | | | | | | | TB19- | 89AB | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 748 | 46 | | | | | | 225 | | 200 | 85 | | 7 | | | | 400 | | 370 | 48 | 52 | 846 | | | | | | | | | | | | | | | | | | | | | | |
| B 748B | 41 | | | TB22- | 30 | | 16M | | 107 | | | | | | SHLD B 748 | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 748L | | | | P84-C | | | 25M | | | | | | | | TB22- | 31CD | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 748R | | | | P84-B | | | 25M | | | | | | | | TB22- | 31AB | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 749 | 46 | | | | | | 225 | | 200 | 85 | | 7 | | | | 400 | | 370 | 48 | 52 | 846 | | | | | | | | | | | | | | | | | | | | | | |
| B 749B | 41 | | | TB22- | 33 | | 16M | | 107 | | | | | | SHLD B 749 | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 749L | | | | P 9-C | | | 25M | | | | | | | | TB22- | 32CD | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 749R | | | | P 9-B | | | 25M | | | | | | | | TB22- | 32AB | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B 750 | 46 | | | | | | 225 | | 200 | 85 | | 7 | | | | 400 | | 370 | 48 | 52 | 846 | | | | | | | | | | | | | | | | | | | | | | |
| B 750B | 41 | | | TB22- | 33 | | 16M | | 107 | | | | | | SHLD B 750 | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | SCALE - NONE | | | | | | | | | | A | | | | | | | | | | 1900943 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 750L | | P86-C | 25N | | | TB22- 34CD | 16N | 107 | |
| B 750R | | P86-B | 25N | | | TB22- 34AB | 16N | 107 | |
| B 751 | 44 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 751B | 41 | TB22- 39 | 16N | 107 | | SHLD B 751 | 25N | | |
| B 751L | | P86-J | 25N | | | TB22- 38CD | 16N | 107 | |
| B 751R | | P86-H | 25N | | | TB22- 38AB | 16N | 107 | |
| B 753 | 42 | P96-Y | 25N | | | TB21- 5CD | 16N | 107 | |
| B 754 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 754B | 41 | TB21- 49 | 16N | 107 | | SHLD B 754 | 25N | | |
| B 754L | | P84-C* | 25N | | | TB21- 50 | 16N | 107 | |
| B 754R | | P84-B* | 25N | | | TB21- 51 | 16N | 107 | |
| B 755 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 755B | 41 | TB21- 55 | 16N | 107 | | SHLD B 755 | 25N | | |
| B 755L | | P 9-C* | 25N | | | TB21- 53 | 16N | 107 | |
| B 755R | | P 9-B* | 25N | | | TB21- 54 | 16N | 107 | |
| B 756 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 756B | 41 | TB21- 55 | 16N | 107 | | SHLD B 756 | 25N | | |
| B 756L | | P83-C | 25N | | | TB21- 56 | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 96 OF 188 | | | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 756R | | P83-B | 25N | | | TB21- 57 | 16N | 107 | |
| B 757 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 757B | 41 | TB21- 58 | 16N | 107 | | SHLD B 757 | 25N | | |
| B 757L | | P83-N | 25N | | | TB21- 59CD | 16N | 107 | |
| B 757R | | P83-M | 25N | | | TB21- 59AB | 16N | 107 | |
| B 758 | 46 | | 225 200 85 | 7 | | | 225 200 48 52 846 | | |
| B 758B | 41 | E 33 | 25N | | | SHLD B 758 | 25N | | |
| B 758L | | P 3-C | 25N | | | P91-K* | 25N | | |
| B 758R | | P 3-F | 25N | | | P91-K | 25N | | |
| B 759 | 46 | | 225 200 85 | 7 | | | 225 200 48 52 846 | | |
| B 759B | 41 | E 33 | 25N | | | SHLD B 759 | 25N | | |
| B 759L | | P 3-R | 25N | | | P91-N* | 25N | | |
| B 759R | | P 3-G | 25N | | | P91-N | 25N | | |
| B 760 | 46 | | 225 200 85 | 7 | | | 225 200 48 52 846 | | |
| B 760B | 41 | E 33 | 25N | | | SHLD B 760 | 25N | | |
| B 760L | | P 3-U | 25N | | | P91-R* | 25N | | |
| B 760R | | P 3-K | 25N | | | P91-R | 25N | | |
| B 761 | 40 | P 8-A | 25N | | | TB25- 2 | 20N | 111 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 97 OF 188 | | | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 762 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 762B | 41 | TB20- 18 | 16N | 107 | | SHLD B 762 | 25N | | |
| B 762L | | P22-M | 25N | | | TB20- 17CD | 16N | 107 | |
| B 762R | | P22-L | 25N | | | TB20- 17AB | 16N | 107 | |
| B 763 | 65 | | 52 23 90 91 | 7 | | | 225 200 86 87 856 | | |
| B 763B | 41 | TB22- 19CD | 16N | 107 | | SHLD B 763 | 25N | | |
| B 763E | | P66-F1 | 11N | 89 | | TB22- 19AB | 16N | 107 | |
| B 763X | | P66-F2 | | | | SHLD B 763 | | | |
| B 764 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 764B | 41 | TB20- 69 | 16N | 107 | | SHLD B 764 | 25N | | |
| B 764L | | P 9-E* | 25N | | | TB20- 70 | 16N | 107 | |
| B 764R | | P 9-D* | 25N | | | TB20- 71 | 16N | 107 | |
| B 765 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 765B | 41 | TB20- 77 | 16N | 107 | | SHLD B 765 | 25N | | |
| B 765L | | P86-C* | 25N | | | TB20- 78 | 16N | 107 | |
| B 765R | | P86-B* | 25N | | | TB20- 79 | 16N | 107 | |
| B 766 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 766B | 41 | TB20- 75 | 16N | 107 | | SHLD B 766 | 25N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 98 OF 188 | | | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 766L | | P86-E* | 25N | | | TB20- 74CD | 16N | 107 | |
| B 766R | | P86-D* | 25N | | | TB20- 74AB | 16N | 107 | |
| B 767 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 767B | 41 | TB19- 97 | 16N | 107 | | SHLD B 767 | 25N | | |
| B 767L | | P85-EE | 25N | | | TB19- 96CD | 16N | 107 | |
| B 767R | | P85-DD | 25N | | | TB19- 96AB | 16N | 107 | |
| B 768 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 768B | 41 | TB19- 94 | 16N | 107 | | SHLD B 768 | 25N | | |
| B 768L | | P84-EE | 25N | | | TB19- 95CD | 16N | 107 | |
| B 768R | | P84-DD | 25N | | | TB19- 95AB | 16N | 107 | |
| B 769 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 769B | 41 | TB19- 94 | 16N | 107 | | SHLD B 769 | 25N | | |
| B 769L | | P 9-EE | 25N | | | TB19- 93CD | 16N | 107 | |
| B 769R | | P 9-DD | 25N | | | TB19- 93AB | 16N | 107 | |
| B 770 | 46 | | 225 200 85 | 7 | | | 400 370 48 52 846 | | |
| B 770B | 41 | TB19- 91 | 16N | 107 | | SHLD B 770 | 25N | | |
| B 770L | | P83-JJ | 25N | | | TB19- 90CD | 16N | 107 | |
| B 770R | | P83-MH | 25N | | | TB19- 90AB | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 99 OF 188 | | | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----|--|--|--|--|--|--|--|--|--|-----|----|--|---|--|--|--|--|--|----------------------|-----|----|----|-----|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | |
| ITEM NO. | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | |
| B 771 | 46 | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B 771B | 41 | | | | | | | | | TB19- 91 | 16N | | | | | | | | | SHLD B 771 | 25N | | | | | | | | |
| B 771L | | | | | | | | | | P86-EE | 25N | | | | | | | | | TB19- 92CD | 16N | | | | | | | | |
| B 771R | | | | | | | | | | P86-DD | 25N | | | | | | | | | TB19- 92AB | 16N | | | | | | | | |
| B 772 | 46 | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B 772B | 41 | | | | | | | | | TB22- 36 | 16N | | | | | | | | | SHLD B 772 | 25N | | | | | | | | |
| B 772L | | | | | | | | | | P10-C | 25N | | | | | | | | | TB22- 35CD | 16N | | | | | | | | |
| B 772R | | | | | | | | | | P10-B | 25N | | | | | | | | | TB22- 35AB | 16N | | | | | | | | |
| B 773 | 46 | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B 773B | 41 | | | | | | | | | TB21- 67 | 16N | | | | | | | | | SHLD B 773 | 25N | | | | | | | | |
| B 773L | | | | | | | | | | P10-E | 25N | | | | | | | | | TB21- 68CD | 16N | | | | | | | | |
| B 773R | | | | | | | | | | P10-D | 25N | | | | | | | | | TB21- 68AB | 16N | | | | | | | | |
| B 774 | 46 | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B 774B | 41 | | | | | | | | | TB21- 70 | 16N | | | | | | | | | SHLD B 774 | 25N | | | | | | | | |
| B 774L | | | | | | | | | | P85-C | 25N | | | | | | | | | TB21- 69CD | 16N | | | | | | | | |
| B 774R | | | | | | | | | | P85-B | 25N | | | | | | | | | TB21- 69AB | 16N | | | | | | | | |
| B 775 | 46 | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B 775B | 41 | | | | | | | | | TB21- 61 | 16N | | | | | | | | | SHLD B 775 | 25N | | | | | | | | |
| ▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANRED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
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| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900943 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AR 1900943

| | | | |
|--|---------|---------|-----|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900943 | |
| SCALE - NONE | REV LTR | AR | SHE |

AR 1900943

| | | |
|--|------------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900943 |
| | A | |
| SCALE NONE | REV LTR AB | SHE |

AR 1900943

| | | | |
|---|---------|---------|------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900943 | |
| SCALE - NONE | REV LTR | AR | SHEE |

AR 1900943

| | | | |
|---|--|---------------|---------|
| MAHNE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| SCALE NONE | | REVIEW AS | SUN |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------|--|---------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION | | TERMINATION | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 851 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 851B | 41 | TB20- 94 | 16N 107 | SHLD B 851 | 25N |
| B 851L | | P84-V | 25N | TB20- 95CD | 16N 107 |
| B 851R | | P84-U | 25N | TB20- 95AB | 16N 107 |
| B 852 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 852B | 41 | TB20- 91 | 16N 107 | SHLD B 852 | 25N |
| B 852L | | P84-G* | 25N | TB20- 90CD | 16N 107 |
| B 852R | | P84-F* | 25N | TB20- 90AB | 16N 107 |
| B 853 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 853B | 41 | TB20- 94 | 16N 107 | SHLD B 853 | 25N |
| B 853L | | P83-J | 25N | TB20- 93CD | 16N 107 |
| B 853R | | P83-H | 25N | TB20- 93AB | 16N 107 |
| B 854 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 854B | 41 | TB20- 97 | 16N 107 | SHLD B 854 | 25N |
| B 854L | | P83-X* | 25N | TB20- 96CD | 16N 107 |
| B 854R | | P83-W* | 25N | TB20- 96AB | 16N 107 |
| B 855 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 855B | 41 | TB20- 91 | 16N 107 | SHLD B 855 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 108 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------------|--|---------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION | | TERMINATION | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 855L | | P83-V | 25N | TB20- 92CD | 16N 107 |
| B 855R | | P83-U | 25N | TB20- 92AB | 16N 107 |
| B 856 | 41 | P17-A | 25N | TB20- 11 | 20N 111 |
| B 857 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 857B | 41 | TB19- 24 | 16N 107 | SHLD B 857 | 25N |
| B 857L | | P29-C | 25N | TB19- 25CD | 16N 107 |
| B 857R | | P29-B | 25N | TB19- 25AB | 16N 107 |
| B 858 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 858B | 41 | TB18- 9 | 16N 107 | SHLD B 858 | 25N |
| B 858L | | P29-G | 25N | TB18- 8CD | 16N 107 |
| B 858R | | P29-F | 25N | TB18- 8AB | 16N 107 |
| B 859 | 46 | 225 | 200 48 52 845 | 225 | 200 85 7 |
| B 859A | 41 | SHLD B 859 | 25N | E 38 | 25N |
| B 859L | | P65-M* | 25N | P28-C | 25N |
| B 859R | | P65-M | 25N | P28-B | 25N |
| B 860 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 860B | 41 | TB22- 64 | 16N 107 | SHLD B 860 | 25N |
| B 860L | | P84-E | 25N | TB22- 65CD | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 109 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------|--|---------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION | | TERMINATION | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 860R | | P84-D | 25N | TB22- 65AB | 16N 107 |
| B 861 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 861B | 41 | TB22- 61 | 16N 107 | SHLD B 861 | 25N |
| B 861L | | P 9-E | 25N | TB22- 62CD | 16N 107 |
| B 861R | | P 9-D | 25N | TB22- 62AB | 16N 107 |
| B 862 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 862B | 41 | TB22- 64 | 16N 107 | SHLD B 862 | 25N |
| B 862L | | P83-G | 25N | TB22- 63CD | 16N 107 |
| B 862R | | P83-F | 25N | TB22- 63AB | 16N 107 |
| B 863 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 863B | 41 | TB20- 64 | 16N 107 | SHLD B 863 | 25N |
| B 863L | | P83-L | 25N | TB20- 63CD | 16N 107 |
| B 863R | | P83-K | 25N | TB20- 63AB | 16N 107 |
| B 864 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 864B | 41 | TB22- 61 | 16N 107 | SHLD B 864 | 25N |
| B 864L | | P83-R | 25N | TB22- 60CD | 16N 107 |
| B 864R | | P83-P | 25N | TB22- 60A | 16N 107 |
| B 865 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 110 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|--------------------|---------|--|---------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION | | TERMINATION | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 865B | 41 | TB20- 77 | 16N 107 | SHLD B 865 | 25N |
| B 865L | | J16-H* | 25N | TB20- 76CD | 16N 107 |
| B 865R | | J16-G* | 25N | TB20- 76AB | 16N 107 |
| B 866 | 42 | P32-S* | 25N | TB21- 44AB | 16N 107 |
| B 867 | 42 | P32-T* | 25N | TB21- 57 | 16N 107 |
| B 868 | 12 | | | | |
| B 868L | | P32-X | 25N | TB21- 59CD | 16N 107 |
| B 868R | | P32-W | 25N | TB21- 59AB | 16N 107 |
| B 869 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 869B | 41 | TB21- 88 | 16N 107 | SHLD B 869 | 25N |
| B 869L | | P10-G | 25N | TB21- 87CD | 16N 107 |
| B 869R | | P10-F | 25N | TB21- 87AB | 16N 107 |
| B 870 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 870B | 41 | TB21- 84 | 16N 107 | SHLD B 870 | 25N |
| B 870L | | P10-J | 25N | TB21- 83CD | 16N 107 |
| B 870R | | P10-H | 25N | TB21- 83AB | 16N 107 |
| B 871 | 46 | 225 | 200 85 | 400 | 370 48 52 846 |
| B 871B | 41 | TB21- 81 | 16N 107 | SHLD B 871 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 111 OF 188 | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|--------------------|-----|-----|----|---|-------------|---|----|----|----|---|-----|-----|----|----|-------------|----|----|----|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| B 871L | | P10-T | 25N | | | | | | | | | TB21- 82CD | 16N | 107 | | | | | | | |
| B 871R | | P10-S | 25N | | | | | | | | | TB21- 82AB | 16N | 107 | | | | | | | |
| B 872 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 872B 41 | | TB21- 88 | 16N | 107 | | | | | | | | SHLD B 872 | 25N | | | | | | | | |
| B 872L | | P10-V | 25N | | | | | | | | | TB21- 86CD | 16N | 107 | | | | | | | |
| B 872R | | P10-U | 25N | | | | | | | | | TB21- 86AB | 16N | 107 | | | | | | | |
| B 873 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 873B 41 | | TB21- 84 | 16N | 107 | | | | | | | | SHLD B 873 | 25N | | | | | | | | |
| B 873L | | P85-G | 25N | | | | | | | | | TB21- 85CD | 16N | 107 | | | | | | | |
| B 873R | | P85-F | 25N | | | | | | | | | TB21- 85AB | 16N | 107 | | | | | | | |
| B 874 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 874B 41 | | TB21- 81 | 16N | 107 | | | | | | | | SHLD B 874 | 25N | | | | | | | | |
| B 874L | | P85-J | 25N | | | | | | | | | TB21- 79 | 16N | 107 | | | | | | | |
| B 874R | | P85-H | 25N | | | | | | | | | TB21- 80 | 16N | 107 | | | | | | | |
| B 875 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 875B 41 | | TB21- 88 | 16N | 107 | | | | | | | | SHLD B 875 | 25N | | | | | | | | |
| B 875L | | P 9-T | 25N | | | | | | | | | TB21- 89CD | 16N | 107 | | | | | | | |
| B 875R | | P 9-S | 25N | | | | | | | | | TB21- 89AB | 16N | 107 | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 112 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|--------------------|------|-----|-----|---|-------------|---|----|----|----|---|-----|-----|-----|-----|-------------|----|----|----|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| B 876 | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 876B | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 876L | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 876R | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 877 | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 877B | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 877L | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 877R | | DELETED | | | | | | | | | | | | | | | | | | | |
| B 878 42 | | J18-LL | 25N | | | | | | | | | P14-V* | 25N | | | | | | | | |
| B 879 42 | | J22-J | 25N | | | | | | | | | P14-W* | 25N | | | | | | | | |
| B 880 16 | | P22-A | 25N | | | | | | | | | TB25- 12 | 40N | 111 | | | | | | | |
| B 881 41 | | P90-E | 327N | | | | | | | | | TB23- 12 | 20N | 111 | | | | | | | |
| B 882 41 | | P90-I | 327N | | | | | | | | | TB23- 13 | 20N | 111 | | | | | | | |
| B 883 | | J22-U* | 25N | | | | | | | | | TB22- 60AB | 16N | 107 | | | | | | | |
| B 883 07 | | | 225 | 200 | 120 | | 7 | | | | | | 225 | 200 | 117 | 118 | 856 | | | | |
| B 883B 41 | | TB22- 61 | 16N | 107 | | | | | | | | SHLD B 883 | 25N | | | | | | | | |
| B 884 42 | | J22-V* | 25N | | | | | | | | | TB22- 60CD | 16N | 107 | | | | | | | |
| B 885 | | J22-G | 25N | | | | | | | | | TB22- 65AB | 16N | 107 | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 113 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|--------------------|-----|-----|-----|---|-------------|---|----|----|----|---|-----|-----|-----|-----|-------------|----|----|----|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| B 885 07 | | | 225 | 200 | 120 | | 7 | | | | | | 225 | 200 | 171 | 118 | 856 | | | | |
| B 885B 41 | | TB22- 64 | 16N | 107 | | | | | | | | SHLD B 885 | 25N | | | | | | | | |
| B 886 42 | | J22-H | 25N | | | | | | | | | TB22- 63CD | 16N | 107 | | | | | | | |
| B 887 42 | | J21-W | 25N | | | | | | | | | TB22- 42AB | 16N | 107 | | | | | | | |
| B 888 40 | | P30-A | 25N | | | | | | | | | TB25- 2 | 20N | 111 | | | | | | | |
| B 889 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 889B 41 | | TB21- 91 | 16N | 107 | | | | | | | | SHLD B 889 | 25N | | | | | | | | |
| B 889L | | P10-V* | 25N | | | | | | | | | TB21- 92CD | 16N | 107 | | | | | | | |
| B 889R | | P10-U* | 25N | | | | | | | | | TB21- 92AB | 16N | 107 | | | | | | | |
| B 890 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 890B 41 | | TB21- 91 | 16N | 107 | | | | | | | | SHLD B 890 | 25N | | | | | | | | |
| B 890L | | P 9-G* | 25N | | | | | | | | | TB21- 93CD | 16N | 107 | | | | | | | |
| B 890R | | P 9-F* | 25N | | | | | | | | | TB21- 90AB | 16N | 107 | | | | | | | |
| B 891 46 | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 891B 41 | | TB21- 91 | 16N | 107 | | | | | | | | SHLD B 891 | 25N | | | | | | | | |
| B 891L | | P83-E* | 25N | | | | | | | | | TB21- 90CD | 16N | 107 | | | | | | | |
| B 891R | | P83-D* | 25N | | | | | | | | | TB21- 90AB | 16N | 107 | | | | | | | |
| B 892 42 | | J16-Z* | 25N | | | | | | | | | TB21- 40AB | 16N | 107 | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 114 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----------|---------------------|-----|-----|----|----|-------------|--|--|--|--|---|-----|---------------|---------|------------------|-------------|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | | | | | ITEM NO. | | | | | STEP WIRE OR JACKET | | | | | ITEM NO. | | | | |
| | | CIRCUIT POINT | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | |
| B 893 | 42 | J16-DD | 25N | | | | | | | | | TB21- 40AB | 16N | 107 | | | | | | | |
| B 894 | 42 | J16-GG | 25N | | | | | | | | | TB21- 40AB | 16N | 107 | | | | | | | |
| B 895 | 46 | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 895B | 41 | TB19- 7 | 16N | 107 | | | | | | | | SHLD B 895 | 25N | | | | | | | | |
| B 895L | | P29-E | 25N | | | | | | | | | TB19- 6CD | 16N | 107 | | | | | | | |
| B 895R | | P29-D | 25N | | | | | | | | | TB19- 6AB | 16N | 107 | | | | | | | |
| B 896 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 896A | 41 | SHLD B 896 | 25N | | | | | | | | | TB17- 49CD | 16N | 107 | | | | | | | |
| B 896B | 41 | P15-F | 25N | | | | | | | | | SHLD B 896 | 25N | | | | | | | | |
| B 896E | | TB17- 49AB | 16N | 107 | | | | | | | | P15-G | 25N | | | | | | | | |
| B 897 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 897A | 41 | SHLD B 897 | 25N | | | | | | | | | TB17- 48CD | 16N | 107 | | | | | | | |
| B 897B | 41 | P15-K | 25N | | | | | | | | | SHLD B 897 | 25N | | | | | | | | |
| B 897E | | TB17- 48AB | 16N | 107 | | | | | | | | P15-L | 25N | | | | | | | | |
| B 898 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 898A | 41 | SHLD B 898 | 25N | | | | | | | | | TB17- 47CD | 16N | 107 | | | | | | | |
| B 898B | 41 | P14-X | 25N | | | | | | | | | SHLD B 898 | 25N | | | | | | | | |
| B 898E | | TB17- 47AB | 16N | 107 | | | | | | | | P14-W | 25N | | | | | | | | |
| <div><div>▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div><div>▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div></div> | | | | | | | | | | | | MANHO SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR AR | | SHEET 115 OF 188 | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|----------------------|---------------|-----|----------|-----|----------------------|---------------|-----|----------|-----|---|---------------|-----|----------|-----|----------------------|---------------|-----|----------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. |
| B 920A | 41 | SHLD B 920 | 25N | | | | | | | | | TB17- 32CD | 16N | 107 | | | | | | | |
| B 920B | 41 | P15-M | 25N | | | | | | | | | SHLD B 920 | 25N | | | | | | | | |
| B 920E | | TB17- 32AB | 16N | 107 | | | | | | | | P15-N | 25N | | | | | | | | |
| B 921 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 921A | 41 | SHLD B 921 | 25N | | | | | | | | | P14-G* | 25N | | | | | | | | |
| B 921B | 41 | TB17- 39CD | 16N | 107 | | | | | | | | SHLD B 921 | 25N | | | | | | | | |
| B 921E | | P14-F* | 25N | | | | | | | | | TB17- 39AB | 16N | 107 | | | | | | | |
| B 922 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 922A | 41 | SHLD B 922 | 25N | | | | | | | | | P14-R | 25N | | | | | | | | |
| B 922B | 41 | TB17- 38CD | 16N | 107 | | | | | | | | SHLD B 922 | 25N | | | | | | | | |
| B 922E | | P14-P | 25N | | | | | | | | | TB17- 38AB | 16N | 107 | | | | | | | |
| B 923 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 923A | 41 | SHLD B 923 | 25N | | | | | | | | | P14-S* | 25N | | | | | | | | |
| B 923B | 41 | TB17- 31CD | 16N | 107 | | | | | | | | SHLD B 923 | 25N | | | | | | | | |
| B 923E | | P14-U* | 25N | | | | | | | | | TB17- 31AB | 16N | 107 | | | | | | | |
| B 924 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 924A | 41 | SHLD B 924 | 25N | | | | | | | | | P15-EE | 25N | | | | | | | | |
| B 924B | 41 | TB17- 30CD | 16N | 107 | | | | | | | | SHLD B 924 | 25N | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 120 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|----------------------|---------------|-----|----------|-----|----------------------|---------------|-----|----------|-----|---|---------------|-----|----------|-----|----------------------|---------------|-----|----------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. |
| B 924E | | P15-FF | 25N | | | | | | | | | TB17- 30AB | 16N | 107 | | | | | | | |
| B 925 | | DELETE | | | | | | | | | | | | | | | | | | | |
| B 926 | 41 | P99-R* | 25N | | | | | | | | | P20-BB | 25N | | | | | | | | |
| B 927 | 42 | P99-R | 25N | | | | | | | | | P20-LL | 25N | | | | | | | | |
| B 928 | 42 | P99-Y | 25N | | | | | | | | | P20-EE | 25N | | | | | | | | |
| B 929 | 41 | P99-X | 25N | | | | | | | | | P20-FF | 25N | | | | | | | | |
| B 930 | 42 | P99-J | 25N | | | | | | | | | P20-MM | 25N | | | | | | | | |
| B 931 | 41 | P99-M | 25N | | | | | | | | | P20-GG | 25N | | | | | | | | |
| B 932 | | DELETE | | | | | | | | | | | | | | | | | | | |
| B 933 | 41 | TB22- 95AB | 16N | 107 | | | | | | | | P20-JJ | 25N | | | | | | | | |
| B 934 | 41 | P99-W | 25N | | | | | | | | | P20-KK | 25N | | | | | | | | |
| B 935 | 42 | J18-JJ | 25N | | | | | | | | | P96-V | 25N | | | | | | | | |
| B 936 | 42 | P31-K | 25N | | | | | | | | | TB22- 40AB | 16N | 107 | | | | | | | |
| B 937 | 42 | P98-EE | 25N | | | | | | | | | TB22- 2CD | 16N | 107 | | | | | | | |
| B 938 | 46 | | 225 | 200 | 85 | 7 | | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 938B | 41 | TB22- 91 | 16N | 107 | | | | | | | | SHLD B 938 | 25N | | | | | | | | |
| B 938L | | P84-J* | 25N | | | | | | | | | TB22- 92CD | 16N | 107 | | | | | | | |
| B 938R | | P84-H* | 25N | | | | | | | | | TB22- 92AB | 16N | 107 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 121 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|----------------------|---------------|-----|----------|-----|----------------------|---------------|-----|----------|-----|---|---------------|-----|----------|-----|----------------------|---------------|-----|----------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | NO. |
| B 939 | 46 | | 225 | 200 | 85 | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B 939B | 41 | TB22- 94 | 16N | 107 | | | | | | | | SHLD B 939 | 25N | | | | | | | | |
| B 939L | | P86-J* | 25N | | | | | | | | | TB22- 93CD | 16N | 107 | | | | | | | |
| B 939R | | P86-H* | 25N | | | | | | | | | TB22- 93AB | 16N | 107 | | | | | | | |
| B 940 | 46 | | 225 | 200 | 85 | 7 | | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B 940B | 41 | TB22- 91 | 16N | 107 | | | | | | | | SHLD B 940 | 25N | | | | | | | | |
| B 940L | | P83-R* | 25N | | | | | | | | | TB22- 90CD | 16N | 107 | | | | | | | |
| B 940R | | P83-P* | 25N | | | | | | | | | TB22- 90AB | 16N | 107 | | | | | | | |
| B 941 | 42 | J22-A* | 25N | | | | | | | | | TB19- 98AB | 16N | 107 | | | | | | | |
| B 942 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 942A | 41 | SHLD B 942 | 25N | | | | | | | | | TB17- 25CD | 16N | 107 | | | | | | | |
| B 942B | 41 | P14-E | 25N | | | | | | | | | SHLD B 942 | 25N | | | | | | | | |
| B 942E | | TB17- 25AB | 16N | 107 | | | | | | | | P14-D | 25N | | | | | | | | |
| B 943 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| B 943A | 41 | SHLD B 943 | 25N | | | | | | | | | P14-X* | 25N | | | | | | | | |
| B 943B | 41 | TB17- 29CD | 16N | 107 | | | | | | | | SHLD B 943 | 25N | | | | | | | | |
| B 943E | | P14-R* | 25N | | | | | | | | | TB17- 29AB | 16N | 107 | | | | | | | |
| B 944 | 65 | | 225 | 200 | 86 | 87 | 856 | | | | | | 225 | 200 | 86 | 87 | 856 | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 122 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|----------------------|---------------|---------------|----------|----------------------|-------------------|---------------|----------|---|---------------|--------------------|----------|----------------------|---------------|-----|-------------------|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | NO. | ITEM NO. | | | | |
| B 944A | 41 | SHLD B 944 | 25N | | | P15-Y* | 25N | | | | | | | | | | | | | | |
| B 944B | 41 | TB17- 28CD | 16N | 107 | | SHLD B 944 | 25N | | | | | | | | | | | | | | |
| B 944E | | P15-Z* | 25N | | | TB17- 28AB | 16N | 107 | | | | | | | | | | | | | |
| B 945 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | | | | | | | | | | | | | |
| B 945A | 41 | SHLD B 945 | 25N | | | P15-AA | 25N | | | | | | | | | | | | | | |
| B 945B | 41 | TB17- 27CD | 16N | 107 | | SHLD B 945 | 25N | | | | | | | | | | | | | | |
| B 945E | | P15-BB | 25N | | | TB17- 27AB | 16N | 107 | | | | | | | | | | | | | |
| B 946 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | | | | | | | | | | | | | |
| B 946A | 41 | SHLD B 946 | 25N | | | P15-CC | 25N | | | | | | | | | | | | | | |
| B 946B | 41 | TB17- 26CD | 16N | 107 | | SHLD B 946 | 25N | | | | | | | | | | | | | | |
| B 946E | | P15-DD | 25N | | | TB17- 26AB | 16N | 107 | | | | | | | | | | | | | |
| B 948 | 42 | P24-B | 25N | | | TB23- 11 | 20N | 111 | | | | | | | | | | | | | |
| B 949 | 42 | P28-D | 25N | | | TB23- 17 | 20N | 111 | | | | | | | | | | | | | |
| B 950 | 42 | P37-K | 25N | | | J24-R* | 25N | | | | | | | | | | | | | | |
| B 951 | 42 | P37-M | 25N | | | J24-S* | 25N | | | | | | | | | | | | | | |
| B 952 | 42 | P37-T* | 25N | | | J24-V* | 25N | | | | | | | | | | | | | | |
| B 953 | 42 | P37-V* | 25N | | | J24-BB | 25N | | | | | | | | | | | | | | |
| B 954 | 42 | P37-P* | 25N | | | J24-W* | 25N | | | | | | | | | | | | | | |
| 1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | | | | | | | |
| | | | | | | | | | | SCALE - NONE | | REV LTR AR | | SHEET 123 OF 108 | | | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------------|-------------|-----|---|---------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 955 | 42 | P37-X* | 25N | | | J24-Y* | 25N | | |
| B 956 | 42 | P37-Z* | 25N | | | J24-O* | 25N | | |
| B 957 | 42 | P37-BB | 25N | | | J24-N* | 25N | | |
| B 958 | 42 | P37-DD | 25N | | | J24-P* | 25N | | |
| B 959 | 42 | P37-I* | 25N | | | J24-U* | 25N | | |
| B 960 | 46 | | 225 200 85 | 7 | | | 225 200 48 52 845 | | |
| B 960B | 41 | SHLD B 960 | | | | E 26 | 25N | | |
| B 960L | | P37-MH | 25N | | | J24-D | 25N | | |
| B 960R | | P37-Z | 25N | | | J24-C | 25N | | |
| B 961 | 42 | P37-M* | 25N | | | J24-X* | 25N | | |
| B 962 | 42 | P37-L | 25N | | | J24-T* | 25N | | |
| B 963 | 65 | | 225 200 86 87 856 | | | | 225 200 86 87 856 | | |
| B 963A | 41 | SHLD B 963 | 25N | | | TB17- 10CD | 16N 107 | | |
| B 963B | 41 | P14-K | 25N | | | SHLD B 963 | 25N | | |
| B 963E | | TB17- 10AB | 16N 107 | | | P14-L | 25N | | |
| B 964 | 65 | | 225N 200 86 87 85 6 | | | | 225N 200 86 87 85 6 | | |
| B 964A | 41 | SHLD B 964 | 25N | | | P14-GG | 25N | | |
| B 964B | 41 | TB17- 13CD | 25N 107 | | | SHLD B 964 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MAHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 124 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------------|-------------|-----|---|---------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 964E | | P14-FF | 25N | | | TB17- 13AB | 16N 107 | | |
| B 965 | 65 | | 225N 200 86 87 85 6 | | | | 225N 200 86 87 85 6 | | |
| B 965A | 41 | SHLD B 965 | 25N | | | P14-MH | 25N | | |
| B 965B | 41 | TB17- 12CD | 16N 107 | | | SHLD B 965 | 25N | | |
| B 965E | | P14-CC | 25N | | | TB17- 12AB | 16N 107 | | |
| B 966 | 65 | | 225N 200 86 87 85 6 | | | | 225 200 86 87 856 | | |
| B 966A | 41 | SHLD B 966 | 25N | | | P15-B* | 25N | | |
| B 966B | 41 | TB17- 15CD | 16N 107 | | | SHLD B 966 | 25N | | |
| B 966E | | P15-A* | 25N | | | TB17- 15AB | 16N 107 | | |
| B 967 | 65 | | 225N 200 86 87 85 6 | | | | 225 200 86 87 856 | | |
| B 967A | 41 | SHLD B 967 | 25N | | | P14-EE | 25N | | |
| B 967B | 41 | TB17- 14CD | 16N 107 | | | SHLD B 967 | 25N | | |
| B 967E | | P14-DD | 25N | | | TB17- 14AB | 16N 107 | | |
| B 968 | 12 | | | | | | | | |
| B 968L | | J22-V | 25N | | | TB21- 63AB | 16N 107 | | |
| B 968R | | J22-U | 25N | | | TB21- 47AB | 16N 107 | | |
| B 969 | 12 | | | | | | | | |
| B 969L | | J22-X | 25N | | | TB21- 60AB | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MAHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 125 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 969R | | J22-W | 25N | | | TB21- 47CD | 16N 107 | | |
| B 970 | 12 | | | | | | | | |
| B 970L | | J22-Z | 25N | | | TB21- 57AB | 16N 107 | | |
| B 970R | | J22-Y | 25N | | | TB21- 44AB | 16N 107 | | |
| B 971 | 46 | | 225 200 85 | 7 | | | 225 200 48 52 845 | | |
| B 971B | 41 | SHLD B 971 | 25N | | | E 26 | 25N | | |
| B 971L | | P11-FF | 25N | | | J22-T | 25N | | |
| B 971R | | P11-X | 25N | | | J22-S | 25N | | |
| B 972 | 42 | P11-T | 25N | | | J22-E | 25N | | |
| B 973 | 42 | P11-R | 25N | | | J22-C | 25N | | |
| B 974 | 42 | P11-S | 25N | | | J22-D | 25N | | |
| B 975 | 42 | P11-V | 25N | | | J22-AA | 25N | | |
| B 976 | 42 | P11-W | 25N | | | J22-BB | 25N | | |
| B 977 | 42 | J21-U | 25N | | | TB22- 2CD | 16N 107 | | |
| B 978 | 42 | P37-H* | 25N | | | J22-CC | 25N | | |
| B 979 | 42 | P37-J* | 25N | | | J22-DD | 25N | | |
| B 980 | 42 | P37-N* | 25N | | | J22-EE | 25N | | |
| B 982 | 42 | P37-S* | 25N | | | J22-GG | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MAHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 126 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|-------------|-----|---|-------------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 983 | 42 | P37-U* | 25N | | | J22-MH | 25N | | |
| B 984 | 42 | P37-W* | 25N | | | J22-N* | 25N | | |
| B 985 | 42 | P37-Y* | 25N | | | J22-X* | 25N | | |
| B 986 | 42 | P37-AA | 25N | | | J22-Y* | 25N | | |
| B 987 | 42 | P37-CC | 25N | | | J22-Z* | 25N | | |
| B 988 | 42 | J16-JJ | 25N | | | TB21- 5AB | 16N 107 | | |
| B 989 | 42 | J16-MH | 25N | | | TB21- 5CD | 16N 107 | | |
| B 990 | 40 | J26-AA | 25N 157 | | | TB 9- 1 | 20N 111 | | |
| B 991 | 65 | | 225 200 86 87 856 | | | | 225 200 86 87 856 | | |
| B 991A | 41 | SHLD B 991 | 25N | | | TB17-16CD | 16N 107 | | |
| B 991B | 41 | P14-Y | 25N | | | SHLD B 991 | 25N | | |
| B 991E | | TB17-16AB | 16N 107 | | | P14-Z | 25N | | |
| B 992 | 42 | P14-E* | 25N | | | TB17- 1AB | 16N 107 | | |
| B 993 | 44 | | 225N 200 83 | | | | 300 270 51 55 83 | | |
| B 993B | 41 | E 48 | 25N | | | SHLD B 993 | 25N | | |
| B 993L | | P99-N* | 25N | | | P90-F | 25N | | |
| B 993R | | P99-M* | 25N | | | P90-G | 25N | | |
| B 994 | 42 | P24-S | 25N | | | J20-M | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MAHED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 127 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|--|----------------------|-----|--------|---|--|----------------------|-----|---|-----|------------------|--|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. 2 | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT 3 | | | TERMINATION SPEC. 1 | | | | | TERMINATION SPEC. 1 | | | | | | |
| NUMBER | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B 995 | 42 | | P24-C* | 25N | | | | J20-C | 25N | | | | | |
| B 999 | 40 | | P 4-A | 25N | | | | TB25- 9 | 20N | 111 | | | | |
| B1000 | 42 | | J22-D* | 25N | | | | TB22- 2AB | 16N | 107 | | | | |
| B1001 | 41 | | P24-A | 25N | | | | TB25- 10 | 20N | 111 | | | | |
| B1006 | 07 | | | 225 | 200120 | 7 | | | 225 | 200117118 | 856 | | | |
| B1006B | 41 | | TB22-100 | 16N | 107 | | | SHLD B1006 | 25N | | | | | |
| B1006M | | | P36-F* | 25N | | | | TB22- 99AB | 16N | 107 | | | | |
| B1007 | 07 | | | 225 | 200120 | 7 | | | 225 | 200117118 | 856 | | | |
| B1007B | 41 | | TB21-100 | 16N | 107 | | | SHLD B1007 | 25N | | | | | |
| B1007M | | | P36-D* | 25N | | | | TB21- 99AB | 16N | 107 | | | | |
| B1008 | 07 | | | 225 | 200120 | 7 | | | 225 | 200117118 | 856 | | | |
| B1008B | 41 | | TB21- 97 | 16N | 107 | | | SHLD B1008 | 25N | | | | | |
| B1008M | | | P36-B* | 25N | | | | TB21- 98AB | 16N | 107 | | | | |
| B1009 | 42 | | P92-B* | 25N | | | | J18-N* | 25N | | | | | |
| B1010 | 42 | | P92-A* | 25N | | | | J18-M* | 25N | | | | | |
| B1011 | 42 | | P92-Y | 25N | | | | J18-K* | 25N | | | | | |
| B1012 | 42 | | P96-A | 25N | | | | J21-R* | 25N | | | | | |
| B1013 | 42 | | P96-B | 25N | | | | J21-Q* | 25N | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900943 | | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | SHEET 128 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|--|----------------------|-----|--|--|--|----------------------|-----|---|--|------------------|--|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. 2 | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT 3 | | | TERMINATION SPEC. 1 | | | | | TERMINATION SPEC. 1 | | | | | | |
| NUMBER | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B1014 | 42 | | P96-C | 25N | | | | J21-P* | 25N | | | | | |
| B1015 | 42 | | P96-D | 25N | | | | J21-N* | 25N | | | | | |
| B1016 | 42 | | P96-E | 25N | | | | J21-M* | 25N | | | | | |
| B1017 | 42 | | P96-G | 25N | | | | J21-B* | 25N | | | | | |
| B1018 | 42 | | P96-H | 25N | | | | J21-C* | 25N | | | | | |
| B1019 | 42 | | P96-J | 25N | | | | J21-D* | 25N | | | | | |
| B1020 | 42 | | P96-K | 25N | | | | J21-E* | 25N | | | | | |
| B1021 | 42 | | P96-L | 25N | | | | J21-F* | 25N | | | | | |
| B1022 | 42 | | P96-M | 25N | | | | J21-G* | 25N | | | | | |
| B1023 | 42 | | P96-N | 25N | | | | J21-H* | 25N | | | | | |
| B1024 | 42 | | P96-P | 25N | | | | J21-J* | 25N | | | | | |
| B1025 | 42 | | P96-R | 25N | | | | J21-K* | 25N | | | | | |
| B1026 | 42 | | P96-S | 25N | | | | J21-A* | 25N | | | | | |
| B1027 | 42 | | P96-X | 25N | | | | J21-U* | 25N | | | | | |
| B1028 | 42 | | J25-CC | 25N | | | | TB17- 93AB | 16N | 107 | | | | |
| B1029 | 42 | | J25-DD | 25N | | | | TB17- 92AB | 16N | 107 | | | | |
| B1030 | 42 | | P36-M | 25N | | | | J18-P* | 25N | | | | | |
| B1031 | 42 | | P36-G | 25N | | | | J18-T* | 25N | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900943 | | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | SHEET 129 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|--|----------------------|-----|--------|--|--|----------------------|-----|---|--|------------------|--|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. 2 | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT 3 | | | TERMINATION SPEC. 1 | | | | | TERMINATION SPEC. 1 | | | | | | |
| NUMBER | | | ITEM NO. | | | | | ITEM NO. | | | | | | |
| B1032 | 42 | | P36-F | 25N | | | | J18-Y | 25N | | | | | |
| B1033 | 42 | | P36-Z | 25N | | | | J18-KK | 25N | | | | | |
| B1035 | 41 | | J26-C* | 25N | | | | TB20- 4AB | 16N | 107 | | | | |
| B1036 | 42 | | J26-D* | 25N | | | | TB20- 40CD | 16N | 107 | | | | |
| B1037 | 41 | | TB20- 14AB | 16N | 107 | | | P17-Y* | 25N | | | | | |
| B1038 | 42 | | P16-CC | 25N | | | | TB20- 13AB | 16N | 107 | | | | |
| B1040 | 46 | | | 225 | 200 85 | | | | 225 | 200 48 52 845 | | | | |
| B1040B | 41 | | E 26 | 25N | | | | SHLD B1040 | 25N | | | | | |
| B1040L | | | P35-J | 25N | | | | J24-D* | 25N | | | | | |
| B1040R | | | P35-H | 25N | | | | J24-C* | 25N | | | | | |
| B1041 | 46 | | | 225 | 200 85 | | | | 225 | 200 48 52 845 | | | | |
| B1041B | 41 | | E 26 | 25N | | | | SHLD B1041 | 25N | | | | | |
| B1041L | | | P35-G | 25N | | | | J24-A* | 25N | | | | | |
| B1041R | | | P35-F | 25N | | | | J24-B* | 25N | | | | | |
| B1042 | 46 | | | 225 | 200 85 | | | | 225 | 200 48 52 845 | | | | |
| B1042B | 41 | | E 26 | 25N | | | | SHLD B1042 | 25N | | | | | |
| B1042L | | | P35-E | 25N | | | | J24-H* | 25N | | | | | |
| B1042R | | | P35-D | 25N | | | | J24-G* | 25N | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900943 | | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | SHEET 130 OF 188 | | |

| GMI WIRING HARNESS B | | | | | | | | | | AR 1900943 | | | | | | | | | |
|--|----------|---|----------------------|-----|-----|----|----------|----------------------|-----|---|-----|------------------|-----|------|--|--|--|--|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | |
| ITEM NO. 2 | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | |
| CIRCUIT POINT 3 | | | TERMINATION SPEC. 1 | | | | | TERMINATION SPEC. 1 | | | | | | | | | | | |
| NUMBER | ITEM NO. | 3 | CIRCUIT POINT | 3 | 1 | 2 | ITEM NO. | CIRCUIT POINT | 3 | 1 | 2 | ITEM NO. | 3 | NO. | | | | | |
| B1043 | 46 | | | 225 | 200 | 85 | | | 225 | 200 | 48 | 52 | 845 | | | | | | |
| B1043B | 41 | | E 26 | 25N | | | | SHLD B1043 | 25N | | | | | | | | | | |
| B1043L | | | P35-C | 25N | | | | J24-F* | 25N | | | | | | | | | | |
| B1043R | | | P35-B | 25N | | | | J24-E* | 25N | | | | | | | | | | |
| B1044 | 41 | | J26-J* | 25N | | | | TB20- 32AB | 16N | 107 | | | | | | | | | |
| B1045 | 41 | | J26-E* | 25N | | | | TB20- 31AB | 16N | 107 | | | | | | | | | |
| B1046 | 65 | | | 225 | 200 | 86 | 87 | 856 | | 225 | 200 | 86 | 87 | 856 | | | | | |
| B1046A | 41 | | SHLD B1046 | 25N | | | | P25-V* | 25N | | | | | | | | | | |
| B1046B | 41 | | TB17- 22CD | 16N | 107 | | | SHLD B1046 | 25N | | | | | | | | | | |
| B1046E | | | P25-U* | 25N | | | | TB17- 22AB | 16N | 107 | | | | | | | | | |
| B1047 | 65 | | | 225 | 200 | 86 | 87 | 85 6 | | 225 | 200 | 86 | 87 | 85 6 | | | | | |
| B1047A | 41 | | SHLD B1047 | 25N | | | | P25-Z* | 25N | | | | | | | | | | |
| B1047B | | | TB17- 21CD | 16N | 107 | | | SHLD B1047 | 25N | | | | | | | | | | |
| B1047E | | | P25-Y* | 25N | | | | TB17- 21AB | 16 | 107 | | | | | | | | | |
| B1048 | 46 | | | 225 | 200 | 85 | 7 | | | 400 | 370 | 48 | 52 | 846 | | | | | |
| B1048B | 41 | | TB17- 50 | 16N | 107 | | | SHLD B1048 | 25N | | | | | | | | | | |
| B1048L | | | P26-P* | 25N | | | | TB17- 23CD | 16N | 107 | | | | | | | | | |
| B1048R | | | P26-N* | 25N | | | | TB17- 23AB | 16N | 107 | | | | | | | | | |
| <div> 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. </div> | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | SHEET 131 OF 188 | | | | | | | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|----------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B1049 | 44 | 225 200 85 | | 400 370 48 52 846 | |
| B1049B | 41 | E 59 | | SHLD B1049 | 25N |
| B1049L | | P24-K* | 25N | P98-X* | 25N |
| B1049R | | P24-J* | 25N | P98-W* | 25N |
| B1050 | 7 | 225 200 117 118 855 | | 225 200 120 | 7 |
| B1050A | 41 | SHLD B1050 | 25N | E 32 | 25N |
| B1050L | | DELETE | | | |
| B1050M | | P36-Q* | 25N | J22-R* | 25N |
| B1051 | 42 | P36-AA | 25N | J22-T* | 25N |
| B1052 | 42 | P36-DD | 25N | J22-F | 25N |
| B1053 | 42 | P36-BB | 25N | J22-K* | 25N |
| B1054 | 42 | P36-EE | 25N | TB20- 7AB | 16N 107 |
| B1056 | 42 | P36-GG | 25N | TB21- ACD | 16N 107 |
| B1057 | 42 | P36-W* | 25N | TB18-100CD | 16N 107 |
| B1058 | 42 | P36-X* | 25N | TB18-100AB | 16N 107 |
| B1059 | 42 | P35-A* | 25N | J22-B* | 25N |
| B1060 | 42 | P98-GG | 25N | J16-D* | 25N |
| B1061 | 42 | P98-HH | 25N | J16-E* | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 132 OF 188 | SIZE A 1900943 |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|----------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B1062 | 42 | P98-FF | 25N | TB22- 96 | 16N 107 |
| B1063 | 42 | P98-T* | 25N | P36-M* | 25N |
| B1064 | 41 | J26-M* | 25N | TB20- 23AB | 16N 107 |
| B1065 | 41 | J26-G* | 25N | TB20- 22AB | 16N 107 |
| B1066 | 41 | J26-I* | 25N | TB20- 29AB | 16N 107 |
| B1067 | 41 | J26-F* | 25N | TB20- 28AB | 16N 107 |
| B1068 | 41 | J26-GG | 25N | TB20- 26AB | 16N 107 |
| B1069 | 41 | J26-HH | 25N | TB20- 25AB | 16N 107 |
| B1070 | 42 | P25-C* | 25N | TB20- 66AB | 16N 107 |
| B1071 | 42 | P25-D* | 25N | TB20- 66CD | 16N 107 |
| B1072 | 42 | P35-BB | 25N | J25-S* | 25N |
| B1073 | 44 | 225 200 85 | | 225 200 48 52 846 | |
| B1073B | 41 | E 25 | 25N | SHLD B1073 | 25N |
| B1073L | | P35-S* | 25N | J25-Z* | 25N |
| B1073M | | P35-T* | 25N | J25-Y* | 25N |
| B1074 | 45 | 225 200 84 | 7 | 400 370 50 54 846 | |
| B1074B | 41 | TB20- 18 | 16N 107 | SHLD B1074 | 25N |
| B1074L | | J26-U* | 25N | TB20- 17CD | 16N 108 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 133 OF 188 | SIZE A 1900943 |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|----------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B1074R | | J26-T* | 25N | TB20- 17AB | 16N 108 |
| B1076 | 42 | TB17- 89AB | 25N | J18-H* | 25N |
| B1077 | 42 | P98-E | 25N | J18-G* | 25N |
| B1078 | 42 | P34-HH | 25N | J18-B* | 25N |
| B1079 | 42 | P34-GG | 25N | J18-A* | 25N |
| B1080 | 42 | P34-FF | 25N | J18-C* | 25N |
| B1081 | 42 | P34-EE | 25N | J18-D* | 25N |
| B1082 | 42 | P34-DD | 25N | J18-F* | 25N |
| B1083 | 42 | P34-CC | 25N | J18-E* | 25N |
| B1084 | 42 | P98-N* | 25N | J21-Z* | 25N |
| B1085 | 42 | P98-G* | 25N | J21-HH | 25N |
| B1086 | 42 | P98-DD | 25N | J21-EE | 25N |
| B1087 | 42 | P98-H* | 25N | J21-V | 25N |
| B1088 | 42 | P98-J* | 25N | J21-L | 25N |
| B1089 | 42 | P98-CC | 25N | J21-M | 25N |
| B1090 | 42 | P98-I* | 25N | J21-X* | 25N |
| B1091 | 42 | P98-V | 25N | J21-GG | 25N |
| B1092 | 42 | P98-U | 25N | J21-DD | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 134 OF 188 | SIZE A 1900943 |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|----------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| | | CIRCUIT POINT | | CIRCUIT POINT | |
| B1093 | 42 | P98-T | 25N | J21-N | 25N |
| B1094 | 42 | P98-S | 25N | J21-J | 25N |
| B1095 | 42 | P98-R | 25N | J21-K | 25N |
| B1096 | 42 | P99-L | 25N | J18-HH | 25N |
| B1097 | 42 | P99-T* | 25N | J18-AA | 25N |
| B1098 | 42 | P99-S* | 25N | J18-BB | 25N |
| B1099 | 42 | P98-BB | 25N | J21-Z | 25N |
| B1100 | 42 | P98-Y* | 25N | J21-Y | 25N |
| B1101 | 42 | P99-FF | 25N | J21-S | 25N |
| B1102 | 42 | P98-S* | 25N | J21-FF | 25N |
| B1103 | 42 | P98-R* | 25N | J21-Y* | 25N |
| B1104 | 42 | P98-P* | 25N | J21-AA | 25N |
| B1105 | 42 | P98-M* | 25N | J21-BB | 25N |
| B1106 | 42 | P34-K | 25N | J18-PP | 25N |
| B1107 | 42 | P99-B* | 25N | J18-Z | 25N |
| B1108 | 44 | 225 200 85 | 7 | 400 370 48 52 846 | |
| B1108B | 41 | TB18- 99 | 16N 107 | SHLD B1108 | 25N |
| B1108L | | P25-GG | 25N | TB21- 71 | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 135 OF 188 | SIZE A 1900943 |

GM1

WIRING HARNESS B

AR

1900943

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----------|---------------------|---------------|----------|----------|----------|-------------------|----------|----------|----------|----------|---|----------|----------|----------|----------|-------------------|----------|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | | | |
| B1108R | | P25-EE | 25N | | | | | | | | | | | | | | | | | | |
| B1109 | 44 | | 225 | 200 | 85 | | | | | | | | | | | | | | | | |
| B1109B | 41 | TB18- 99 | 16N | | 107 | | | | | | | | | | | | | | | | |
| B1109L | | P25-DD | 25N | | | | | | | | | | | | | | | | | | |
| B1109R | | P25-CC | 25N | | | | | | | | | | | | | | | | | | |
| B1110 | 41 | P92-L | 25N | | | | | | | | | | | | | | | | | | |
| B1111 | 44 | | 225 | 200 | 85 | | | | | | | | | | | | | | | | |
| B1111B | 41 | TB18- 99 | 16N | | 107 | | | | | | | | | | | | | | | | |
| B1111L | | P25-HH | 25N | | | | | | | | | | | | | | | | | | |
| B1111R | | P25-FF | 25N | | | | | | | | | | | | | | | | | | |
| B1112 | 42 | P24-CC | 25N | | | | | | | | | | | | | | | | | | |
| B1113 | 42 | P24-DD | 25N | | | | | | | | | | | | | | | | | | |
| B1114 | 41 | P11-D* | 25N | | | | | | | | | | | | | | | | | | |
| B1115 | 41 | P11-E* | 25N | | | | | | | | | | | | | | | | | | |
| B1116 | 41 | P11-F* | 25N | | | | | | | | | | | | | | | | | | |
| B1117 | 45 | | 225 | 200 | 84 | | | | | | | | | | | | | | | | |
| B1117B | 41 | TB22- 21 | 16N | | 107 | | | | | | | | | | | | | | | | |
| B1117L | | P11-C* | 25N | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| | | | | | | | | | | | | SIZE | | | | | | | | | |
| | | | | | | | | | | | | A | | | | | | | | | |
| | | | | | | | | | | | | 1900943 | | | | | | | | | |
| | | | | | | | | | | | | SCALE-NONE | | | | | | | | | |
| | | | | | | | | | | | | REV LTR | | | | | | | | | |
| | | | | | | | | | | | | AR | | | | | | | | | |
| | | | | | | | | | | | | SHEET 136 OF 188 | | | | | | | | | |

| GM1 | | WIRING HARNESS B | | | | | | | | | | AR | | 1900943 | | | | | |
|--|----|------------------|--|---------------------|-----|---------------|--|--------------------|-----|---|--|---------------------|--|---------------|--|-------------------|--|----------|--|
| CONDUCTOR | | | | FROM | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | | | |
| NUMBER | | ITEM NO. | | STEP WIRE OR JACKET | | CIRCUIT POINT | | TERMINATION SPEC. | | ITEM NO. | | STEP WIRE OR JACKET | | CIRCUIT POINT | | TERMINATION SPEC. | | ITEM NO. | |
| B1117R | | | | P11-G* | 25N | | | TB22-22AB | 16N | 108 | | | | | | | | | |
| B1118 | 42 | | | P99-E | 25N | | | J25-D* | 25N | | | | | | | | | | |
| B1119 | 42 | | | P92-M | 25N | | | J25-E* | 25N | | | | | | | | | | |
| B1120 | 42 | | | P31-G | 25N | | | J18-Q* | 25N | | | | | | | | | | |
| B1121 | 42 | | | P31-H | 25N | | | J18-U* | 25N | | | | | | | | | | |
| B1122 | 42 | | | P31-M | 25N | | | J18-X* | 25N | | | | | | | | | | |
| B1123 | 42 | | | P31-CC | 25N | | | J18-S* | 25N | | | | | | | | | | |
| B1124 | 42 | | | P31-EE | 25N | | | J18-R* | 25N | | | | | | | | | | |
| B1125 | 42 | | | P31-AA | 25N | | | J18-W* | 25N | | | | | | | | | | |
| B1126 | 42 | | | P31-Z* | 25N | | | J18-V* | 25N | | | | | | | | | | |
| B1127 | 42 | | | P31-T* | 25N | | | J18-Z* | 25N | | | | | | | | | | |
| B1128 | 42 | | | P31-Y* | 25N | | | J18-Y* | 25N | | | | | | | | | | |
| B1129 | 42 | | | P40-B* | 25N | | | P47-J* | 25N | | | | | | | | | | |
| B1130 | 42 | | | P40-U* | 25N | | | P47-N* | 25N | | | | | | | | | | |
| B1131 | 42 | | | P40-V* | 25N | | | P47-F* | 25N | | | | | | | | | | |
| B1132 | 42 | | | P40-W* | 25N | | | P47-G* | 25N | | | | | | | | | | |
| B1133 | 42 | | | P40-X* | 25N | | | P47-K* | 25N | | | | | | | | | | |
| B1134 | 42 | | | P40-Y* | 25N | | | P47-W | 25N | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE-NONE REV LTR AR | | | | | | | | | |
| | | | | | | | | | | SHEET 137 OF 188 | | | | | | | | | |

| GM1 | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | | SPEC | | | |

| GM1 | | WIRING HARNESS B | | | | | | | | | | AR | | 1900943 | |
|---|----------|------------------|----------------------|-----|---------------|-------------|--|----------------------|-----------|--------|-------------|----|------------------|---------|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | CUT WIRE OR SHIELD | | | TERMINATION | | | | |
| STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | SPEC | | STRIP WIRE OR JACKET | | | SPEC | | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | ITEM NO. | | CIRCUIT POINT | | | ITEM NO. | | | | |
| NUMBER | ITEM NO. | | | | | | | | | | | | | | |
| B1153 | 42 | | P40-R* | 25N | | | | P47-E* | 25N | | | | | | |
| B1154 | 44 | | | 225 | 200 48 52 845 | | | | 225 | 200 85 | | 7 | | | |
| B1154A | 41 | | SHLD B1154 | 25N | | | | E 34 | 25N | | | | | | |
| B1154L | | | P32-Z* | 25N | | | | J17-W* | 25N | | | | | | |
| B1154R | | | P32-Y* | 25N | | | | J17-V* | 25N | | | | | | |
| B1155 | 44 | | | 225 | 200 48 52 845 | | | | 225 | 200 85 | | 7 | | | |
| B1155A | 41 | | SHLD B1155 | 25N | | | | E 34 | 25N | | | | | | |
| B1155L | | | P32-LL | 25N | | | | J17-U* | 25N | | | | | | |
| B1155R | | | P32-KK | 25N | | | | J17-T* | 25N | | | | | | |
| B1156 | 44 | | | 225 | 200 48 52 845 | | | | 225 | 200 85 | | 7 | | | |
| B1156A | 41 | | SHLD B1156 | 25N | | | | E 34 | 25N | | | | | | |
| B1156L | | | P32-M* | 25N | | | | J17-BB | 25N | | | | | | |
| B1156R | | | P32-M | 25N | | | | J17-AA | 25N | | | | | | |
| B1157 | 44 | | | 225 | 200 48 52 845 | | | | 225 | 200 85 | | 7 | | | |
| B1157A | 41 | | SHLD B1157 | 25N | | | | E 35 | 25N | | | | | | |
| B1157L | | | P32-H* | 25N | | | | J17-N* | 25N | | | | | | |
| B1157R | | | P32-H | 25N | | | | J17-M* | 25N | | | | | | |
| B1158 | 44 | | | 225 | 200 48 52 845 | | | | 225 | 200 85 | | 7 | | | |
| ▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | MAYNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | | | | |
| | | | | | | | SCALE: NONE | | REV LTR | | AR | | SHEET 139 OF 188 | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----------|---------------------|---------------|-------------------|---------------|---------------------|---------------|-------------------|-----|---|---------------|--------------------|-----|---------------------|---------------|-------------------|-----|---------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. |
| B1158A | 41 | SHLD | B1158 | 25N | | | | | | E 35 | 25N | | | | | | | | | | |
| B1158L | | P32-J* | | 25N | | | | | | J17-K* | 25N | | | | | | | | | | |
| B1158R | | P32-J | | 25N | | | | | | J17-J* | 25N | | | | | | | | | | |
| B1159 | 44 | | | 225 | 200 48 52 845 | | | | | | 225 | 200 85 | 7 | | | | | | | | |
| B1159A | 41 | SHLD | B1159 | 25N | | | | | | E 35 | 25N | | | | | | | | | | |
| B1159L | | P32-F* | | 25N | | | | | | J17-S* | 25N | | | | | | | | | | |
| B1159R | | P32-F | | 25N | | | | | | J17-R* | 25N | | | | | | | | | | |
| B1160 | 44 | | | 225 | 200 48 52 845 | | | | | | 225 | 200 85 | 7 | | | | | | | | |
| B1160A | 41 | SHLD | B1160 | 25N | | | | | | E 36 | 25N | | | | | | | | | | |
| B1160L | | P32-D* | | 25N | | | | | | J17-B* | 25N | | | | | | | | | | |
| B1160R | | P32-D | | 25N | | | | | | J17-A* | 25N | | | | | | | | | | |
| B1161 | 44 | | | 225 | 200 48 52 845 | | | | | | 225 | 200 85 | 7 | | | | | | | | |
| B1161A | 41 | SHLD | B1161 | 25N | | | | | | E 36 | 25N | | | | | | | | | | |
| B1161L | | P32-C* | | 25N | | | | | | J17-D* | 25N | | | | | | | | | | |
| B1161R | | P32-C | | 25N | | | | | | J17-C* | 25N | | | | | | | | | | |
| B1162 | 44 | | | 225 | 200 48 52 845 | | | | | | 225 | 200 85 | 7 | | | | | | | | |
| B1162A | 41 | SHLD | B1162 | 25N | | | | | | E 36 | 25N | | | | | | | | | | |
| B1162L | | P32-AA | | 25N | | | | | | J17-Y* | 25N | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | 1900943 | | | | | | | | | | 1900943 | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | | | | | | | | | SHEET 140 OF 188 | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----------|---------------------|---------------|-------------------|---------------|---------------------|---------------|-------------------|-----|---|---------------|--------------------|-----|---------------------|---------------|-------------------|-----|---------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. |
| B1162R | | P32-BB | | 25N | | | | | | J17-X* | 25N | | | | | | | | | | |
| B1163 | 44 | | | 225 | 200 48 52 845 | | | | | | 225 | 200 85 | 7 | | | | | | | | |
| B1163A | 41 | SHLD | B1163 | 25N | | | | | | E 35 | 25N | | | | | | | | | | |
| B1163L | | P32-G | | 25N | | | | | | J17-O* | 25N | | | | | | | | | | |
| B1163R | | P32-G* | | 25N | | | | | | J17-P* | 25N | | | | | | | | | | |
| B1164 | 44 | | | 225 | 200 48 52 845 | | | | | | 225 | 200 85 | 7 | | | | | | | | |
| B1164A | 41 | SHLD | B1164 | 25N | | | | | | E 36 | 25N | | | | | | | | | | |
| B1164L | | P32-B | | 25N | | | | | | J17-F* | 25N | | | | | | | | | | |
| B1164R | | P32-B* | | 25N | | | | | | J17-E* | 25N | | | | | | | | | | |
| B1165 | 42 | P98-U* | | 25N | | | | | | T823- 14 | 16N | | | | | | | | | | |
| B1166 | 42 | P99-P | | 25N | | | | | | J26-S* | 25N | | | | | | | | | | |
| B1167 | 42 | P34-C | | 25N | | | | | | J26-X* | 25N | | | | | | | | | | |
| B1168 | 42 | P34-B | | 25N | | | | | | J26-Y* | 25N | | | | | | | | | | |
| B1169 | 42 | P34-E | | 25N | | | | | | J26-Z* | 25N | | | | | | | | | | |
| B1170 | 42 | P34-G | | 25N | | | | | | J26-CC | 25N | | | | | | | | | | |
| B1171 | 42 | P34-H | | 25N | | | | | | T819- 3AB | 17N | 107 | | | | | | | | | |
| B1172 | 42 | P34-E* | | 25N | | | | | | J26-R* | 25N | | | | | | | | | | |
| B1173 | 42 | P99-K | | 25N | | | | | | J26-DD | 25N | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | 1900943 | | | | | | | | | | 1900943 | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | | | | | | | | | SHEET 141 OF 188 | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----------|---------------------|---------------|-------------------|-----|---------------------|---------------|-------------------|-----|---|---------------|--------------------|-----|---------------------|---------------|-------------------|-----|---------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | NO. |
| B1174 | 42 | P99-F | | 25N | | | | | | J26-W* | 25N | | | | | | | | | | |
| B1175 | 42 | P41-A | | 25N | | | | | | T818-83AB | 16N | 107 | | | | | | | | | |
| B1176 | 42 | P41-B | | 25N | | | | | | P 5-C | 25N | | | | | | | | | | |
| B1177 | 42 | P41-C | | 25N | | | | | | P 5-D | 25N | | | | | | | | | | |
| B1178 | 42 | P41-D | | 25N | | | | | | P 5-E | 25N | | | | | | | | | | |
| B1179 | 42 | P39-LL | | 25N | | | | | | P 5-H | 25N | | | | | | | | | | |
| B1180 | 42 | P39-MM | | 25N | | | | | | P 5-J | 25N | | | | | | | | | | |
| B1181 | 42 | P39-MM | | 25N | | | | | | P 5-K | 25N | | | | | | | | | | |
| B1182 | 42 | P39-PP | | 25N | | | | | | P 5-L | 25N | | | | | | | | | | |
| B1183 | 42 | P39-GG | | 25N | | | | | | P 5-P | 25N | | | | | | | | | | |
| B1184 | 42 | P39-MM | | 25N | | | | | | P 5-R | 25N | | | | | | | | | | |
| B1185 | 42 | P39-JJ | | 25N | | | | | | P 5-S | 25N | | | | | | | | | | |
| B1186 | 42 | P39-KK | | 25N | | | | | | P 5-T | 25N | | | | | | | | | | |
| B1187 | 42 | P39-CC | | 25N | | | | | | P 5-W | 25N | | | | | | | | | | |
| B1188 | 42 | P39-DD | | 25N | | | | | | P 5-X | 25N | | | | | | | | | | |
| B1189 | 42 | P39-EE | | 25N | | | | | | P 5-Y | 25N | | | | | | | | | | |
| B1190 | 42 | P39-FF | | 25N | | | | | | P 5-Z | 25N | | | | | | | | | | |
| B1191 | 42 | P39-Y* | | 25N | | | | | | P 5-B* | 25N | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | 1900943 | | | | | | | | | | 1900943 | |
| SCALE - NONE | | | | | | | | | | REV LTR AR | | | | | | | | | | SHEET 142 OF 188 | |

| GMI | | WIRING HARNESS B | | | | | | | | | | AR | | 1900943 | | | | | | | | |
|---|----------|------------------|---------------------|---|---|-----|----------|-------------|---|---|-----|---|--------------------|---------------|-----|----------|----|------------------|-----|-----|--|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | 3 | STEP WIRE OR JACKET | 3 | 1 | 8 | ITEM NO. | 3 | 1 | 8 | NO. | STEP WIRE OR JACKET | 3 | 1 | 8 | ITEM NO. | 3 | 1 | 8 | NO. | | |
| CIRCUIT POINT | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | |
| B1192 | 42 | | P39-Z* | | | 25N | | | | | | P 5-C* | | | 25N | | | | | | | |
| B1193 | 42 | | P39-AA | | | 25N | | | | | | P 5-D* | | | 25N | | | | | | | |
| B1194 | 42 | | P39-BB | | | 25N | | | | | | P 5-E* | | | 25N | | | | | | | |
| B1195 | 42 | | P39-U* | | | 25N | | | | | | P 5-G* | | | 25N | | | | | | | |
| B1196 | 42 | | P39-V* | | | 25N | | | | | | P 5-H* | | | 25N | | | | | | | |
| B1197 | 42 | | P39-W* | | | 25N | | | | | | P 5-I* | | | 25N | | | | | | | |
| B1198 | 42 | | P39-X* | | | 25N | | | | | | P 5-J* | | | 25N | | | | | | | |
| B1199 | 42 | | P39-S* | | | 25N | | | | | | P 5-R* | | | 25N | | | | | | | |
| B1200 | 42 | | P39-P* | | | 25N | | | | | | P 5-S* | | | 25N | | | | | | | |
| B1201 | 42 | | P39-R* | | | 25N | | | | | | T818-83CD | 16N | | 107 | | | | | | | |
| B1202 | 42 | | P39-T* | | | 25N | | | | | | P 5-P* | | | 25N | | | | | | | |
| B1203 | 46 | | | | | 225 | 200 | 85 | | | 7 | | | | 400 | 370 | 48 | 52 | 846 | | | |
| B1203B | 41 | | T820- 6 | | | 16N | | | | | 107 | SHLD 81203 | 25N | | | | | | | | | |
| B1203L | | | P25-PP | | | 25N | | | | | | T820- 8CD | 16N | | 107 | | | | | | | |
| B1203M | | | P25-MM | | | 25N | | | | | | T820- 7AB | 16N | | 107 | | | | | | | |
| B1204 | 46 | | | | | 225 | 200 | 85 | | | 7 | | | | 400 | 370 | 48 | 52 | 846 | | | |
| B1204B | 41 | | T821- 3 | | | 16N | | | | | 107 | SHLD 81204 | 25N | | | | | | | | | |
| | | | P25-NN | | | 25N | | | | | | T821- 7CD | 16N | | 107 | | | | | | | |
| ▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | NAMED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | | | | | | |
| | | | | | | | | | | | | SCALE-NONE | | REV LTR | | AR | | SHEET 143 OF 188 | | | | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|------------------|-----------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1204R | | P25-LL | 25N | | | TB21- 4CD | 16N | 107 | |
| B1205 | 46 | | 225 | 200 | 85 | | 400 | 370 | 48 52 846 |
| B1205B | 41 | TB21- 9 | 16N | 107 | | SHLD B1205 | 25N | | |
| B1205L | | P25-KK | 25N | | | TB21- 8CD | 16N | 107 | |
| B1205R | | P25-JJ | 25N | | | TB21- 40CD | 16N | 107 | |
| B1206 | 46 | | 225 | 200 | 85 | | 400 | 370 | 48 52 846 |
| B1206B | 41 | TB22- 27 | 16N | 107 | | SHLD B1206 | 25N | | |
| B1206L | | P25-R* | 25N | | | TB22- 26CD | 16N | 107 | |
| B1206R | | P25-P* | 25N | | | TB22- 26AB | 16N | 107 | |
| B1207 | 46 | | 225 | 200 | 85 | | 400 | 370 | 48 52 846 |
| B1207B | 41 | TB22- 27 | 16N | 107 | | SHLD B1207 | 25N | | |
| B1207L | | P25-Q* | 25N | | | TB22- 28CD | 16N | 107 | |
| B1207R | | P25-N* | 25N | | | TB22- 28AB | 16N | 107 | |
| B1208 | 46 | | 225 | 200 | 85 | | 400 | 370 | 48 52 846 |
| B1208B | 41 | TB22- 30 | 16N | 107 | | SHLD B1208 | 25N | | |
| B1208L | | P25-M* | 25N | | | TB22- 29CD | 16N | 107 | |
| B1208R | | P25-K* | 25N | | | TB22- 29AB | 16N | 107 | |
| B1209 | 42 | P24-Z | 25N | | | TB21- 4AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE-NONE | | | | | | REV LTR | AR | SHEET 144 OF 188 | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----------|--|---------------|------------------|------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1210 | 40 | J26-BB | 25N | 157 | | TB12- 10 | 20N | 111 | |
| B1211 | 42 | P24-K | 25N | | | TB22- 2CD | 16N | 107 | |
| B1213 | 42 | P31-P | 25N | | | P98-G | 25N | | |
| B1214 | 42 | P31-R | 25N | | | P98-C* | 25N | | |
| B1215 | 42 | P31-U | 25N | | | P98-H | 25N | | |
| B1216 | 42 | P31-X | 25N | | | P98-N | 25N | | |
| B1217 | 42 | P31-C* | 25N | | | P98-J | 25N | | |
| B1218 | 40 | P92-H* | 25N | 157 | | TB 7- 4 | 20N | 111 | |
| B1219 | 46 | | 400 | 370 | 48 52 846 | | 225 | 200 | 85 7 |
| B1219A | 41 | SHLD B1219 | 25N | | | TB27- 22 | 16N | 107 | |
| B1219L | | TB27- 21CD | 16N | 107 | | P65-B* | 25N | | |
| B1219R | | TB27- 21AB | 16N | 107 | | P65-B | 25N | | |
| B1220 | 46 | | 400 | 370 | 48 52 846 | | 225 | 200 | 85 7 |
| B1220A | 41 | SHLD B1220 | 25N | | | TB27- 22 | 16N | 107 | |
| B1220L | | TB27- 23CD | 16N | 107 | | P65-U* | 25N | | |
| B1220R | | TB27- 23AB | 16N | 107 | | P65-U | 25N | | |
| B1221 | 46 | | 400 | 370 | 48 52 846 | | 225 | 200 | 85 7 |
| B1221A | 41 | SHLD B1221 | 25N | | | TB27- 28 | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE-NONE | | | | | | REV LTR | AR | SHEET 145 OF 188 | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----------|--|---------------|------------------|-----------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1221L | | TB27- 26CD | 16N | 107 | | P65-R* | 25N | | |
| B1221R | | TB27- 26AB | 16N | 107 | | P65-R | 25N | | |
| B1222 | 46 | | 400 | 370 | 48 52 846 | | 225 | 200 | 85 7 |
| B1222A | 41 | SHLD B1222 | 25N | | | TB27- 22 | 16N | 107 | |
| B1222L | | TB27- 24CD | 16N | 107 | | P65-S* | 25N | | |
| B1222R | | TB27- 24AB | 16N | 107 | | P65-S | 25N | | |
| B1223 | 65 | | 225 | 200 | 86 87 856 | | 52 | 23 | 90 91 7 |
| B1223A | 41 | SHLD B1223 | 25N | | | TB27- 25CD | 16N | 107 | |
| B1223E | | TB27- 25AB | 16N | 107 | | P93-H1 | 11N | 89 | |
| B1223X | | SHLD B1223 | 25N | | | P93-H2 | 25N | | |
| B1224 | 65 | | 225 | 200 | 86 87 856 | | 52 | 23 | 90 91 7 |
| B1224A | 41 | SHLD B1224 | 25N | | | TB27- 18CD | 16N | 107 | |
| B1224E | | TB27- 18AB | 16N | 107 | | P70-G1 | 11N | 89 | |
| B1224X | | SHLD B1224 | 25N | | | P70-G2 | 25N | | |
| B1225 | 46 | | 225 | 200 | 85 7 | | 400 | 370 | 48 52 846 |
| B1225B | 41 | TB27- 28 | 16N | 107 | | SHLD B1225 | 25N | | |
| B1225L | | P65-T* | 25N | | | TB27- 29CD | 16N | 107 | |
| B1225R | | P65-T | 25N | | | TB27- 29AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE-NONE | | | | | | REV LTR | AR | SHEET 146 OF 188 | |

| GM1 WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----------|--|---------------|------------------|-------------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1226 | 65 | | 52 | 23 | 90 91 7 | | 225 | 200 | 86 87 856 |
| B1226B | 41 | TB27- 27CD | 16N | 107 | | SHLD B1226 | 25N | | |
| B1226E | | P68-F1 | 11N | 89 | | TB27- 27AB | 16N | 107 | |
| B1226X | | P68-F2 | 25N | | | SHLD B1226 | 25N | | |
| B1227 | 41 | P65-A | 25N | | | TB23- 12 | 20N | 111 | |
| B1228 | 07 | | 225 | 200 | 85 7 | | 225 | 200 | 170 118 856 |
| B1228B | 41 | TB19- 39 | 16N | 107 | | SHLD B1228 | 25N | | |
| B1228X | | TB10- 4 | 20N | 111 | | TB19- 37AB | 16N | 107 | |
| B1229 | 47 | | 225 | 200 | 49 53 845 | | 225 | 200 | 84 7 |
| B1229A | 41 | SHLD B1229 | 25N | | | E 27 | 25N | | |
| B1229L | | J17-HH | 25N | | | P21-K* | 25N | | |
| B1229R | | J17-GG | 25N | | | P21-J* | 25N | | |
| B1230 | 47 | | 225 | 200 | 84 | | 225 | 200 | 49 53 84 |
| B1230B | 41 | E 27 | 25N | | | SHLD B1230 | 25N | | |
| B1230L | | P21-I* | 25N | | | J17-KK | 25N | | |
| B1230R | | P21-H* | 25N | | | J17-JJ | 25N | | |
| B1232 | 45 | | 225 | 200 | 84 | | 225 | 200 | 50 54 84 |
| B1232B | 41 | E 26 | 25N | | | SHLD B1232 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE-NONE | | | | | | REV LTR | AR | SHEET 147 OF 188 | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|-----|--|--|--|--|--|--|--|--|---|-----|-----|----|----|-----|--|--|--|--|--------------------|-----|-----|-----|----|-----|---|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| ITEM NO. | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B1232L | | | | | | | | | | P21-Z* | 25N | | | | | | | | | J24-L | 25N | | | | | | | | |
| B1232R | | | | | | | | | | P21-Y* | 25N | | | | | | | | | J24-K | 25N | | | | | | | | |
| B1233 | 42 | | | | | | | | | P17-BB | 25N | | | | | | | | | P34-S | 25N | | | | | | | | |
| B1234 | 45 | | | | | | | | | | 225 | 200 | 50 | 54 | 845 | | | | | | | 225 | 200 | 84 | | 7 | | | |
| B1234A | 41 | | | | | | | | | SHLD B1234 | 25N | | | | | | | | | E 30 | 25N | | | | | | | | |
| B1234L | | | | | | | | | | P21-FF | 25N | | | | | | | | | J25-Q* | 25N | | | | | | | | |
| B1234R | | | | | | | | | | P21-EE | 25N | | | | | | | | | J25-P* | 25N | | | | | | | | |
| B1235 | 14 | | | | | | | | | P33-C | 25N | | | | | | | | | TB24- 9 | 40N | 111 | | | | | | | |
| B1236 | 42 | | | | | | | | | TB20- 38AB | 16N | 107 | | | | | | | | TB24- 3 | 20N | 111 | | | | | | | |
| B1237 | 42 | | | | | | | | | TB20- 38CD | 16N | 107 | | | | | | | | TB24- 7 | 20N | 111 | | | | | | | |
| B1238 | 174 | | | | | | | | | TB23- 9 | 40N | 175 | | | | | | | | TB24- 7 | 40N | 175 | | | | | | | |
| B1239 | 44 | | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B1239B | 41 | | | | | | | | | TB19- 21 | 16N | 107 | | | | | | | | SHLD B1239 | 25N | | | | | | | | |
| B1239L | | | | | | | | | | P91-W* | 25N | | | | | | | | | TB19- 20CD | 16N | 107 | | | | | | | |
| B1239R | | | | | | | | | | P91-W | 25N | | | | | | | | | TB19- 20AB | 16N | 107 | | | | | | | |
| B1240 | 44 | | | | | | | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B1240B | 41 | | | | | | | | | TB19- 18 | 16N | 107 | | | | | | | | SHLD B1240 | 25N | | | | | | | | |
| B1240L | | | | | | | | | | P91-V* | 25N | | | | | | | | | TB19- 19CD | 16N | 107 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE-NONE | | | | | | | | | | REV LTR AR | | | | | | | | | |
| SHEET 148 OF 188 | | | | | | | | | | 1900943 | | | | | | | | | | SHEET 148 OF 188 | | | | | | | | | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|--|--|--|--|--|--|--|--|---|-----|-----|----|----|-----|--|--|--|--|--------------------|-----|-----|----|----|-----|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| ITEM NO. | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B1240R | | | | | | | | | | P91-V | 25N | | | | | | | | | TB19- 19AB | 16N | 107 | | | | | | | |
| B1243 | 42 | | | | | | | | | P25-Z | 25N | | | | | | | | | P34-V | 25N | | | | | | | | |
| B1245 | 65 | | | | | | | | | | 50 | 31 | | | 7 | | | | | | 225 | 200 | 84 | 87 | 856 | | | | |
| B1245B | 41 | | | | | | | | | P82-BB | 25N | | | | | | | | | SHLD B1245 | 25N | | | | | | | | |
| B1245E | | | | | | | | | | P58-M | 11N | | | | | | | | | P82-AA | 25N | | | | | | | | |
| B1245X | | | | | | | | | | P58-L | 25N | | | | | | | | | SHLD B1245 | 25N | | | | | | | | |
| B1246 | 65 | | | | | | | | | | 50 | 31 | | | 7 | | | | | | 225 | 200 | 84 | 87 | 856 | | | | |
| B1246B | 41 | | | | | | | | | P82-Z* | 25N | | | | | | | | | SHLD B1246 | 25N | | | | | | | | |
| B1246E | | | | | | | | | | P57-M | 11N | | | | | | | | | P82-Y* | 25N | | | | | | | | |
| B1246X | | | | | | | | | | P57-L | 25N | | | | | | | | | SHLD B1246 | 25N | | | | | | | | |
| B1251 | 65 | | | | | | | | | | 225 | 200 | 84 | 87 | 856 | | | | | | 225 | 200 | 84 | 87 | 856 | | | | |
| B1251A | 41 | | | | | | | | | SHLD B1251 | 25N | | | | | | | | | P14-H | 25N | | | | | | | | |
| B1251B | 41 | | | | | | | | | TB27- 6A | 16N | 107 | | | | | | | | SHLD B1251 | 25N | | | | | | | | |
| B1251E | | | | | | | | | | P14-J | 25N | | | | | | | | | TB27- 5A | 16N | 107 | | | | | | | |
| B1252 | 41 | | | | | | | | | P34-I* | 25N | | | | | | | | | TB21- 98CD | 16N | 107 | | | | | | | |
| B1255 | 42 | | | | | | | | | P34-R | 25N | | | | | | | | | TB22- 40CD | 16N | 107 | | | | | | | |
| B1256 | 42 | | | | | | | | | P34-M | 25N | | | | | | | | | TB21- 4AB | 16N | 107 | | | | | | | |
| B1257 | 14 | | | | | | | | | P20-PP | 25N | | | | | | | | | TB23- 11 | 20N | 111 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE-NONE | | | | | | | | | | REV LTR AR | | | | | | | | | |
| SHEET 149 OF 188 | | | | | | | | | | 1900943 | | | | | | | | | | SHEET 149 OF 188 | | | | | | | | | |

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WIRING HARNESS B

AR

1900943

| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----|--|--|----------------------|-----|-----|-----|--|---|--|--|--|--|----------------------|-----|-----|-----|----|-----|--|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | |
| NUMBER | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| B1258 | 16 | | | TB21- 63AB | 16M | | 108 | | | | | | | P32-P* | 25M | | | | | | | | |
| B1259 | 46 | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B1259B | 41 | | | TB27- 10 | 16M | | 107 | | | | | | | SMLD B1259 | 25M | | | | | | | | |
| B1259L | | | | P25-X* | 25M | | | | | | | | | TB27- 12D | 16M | | 107 | | | | | | |
| B1259R | | | | P25-W* | 25M | | | | | | | | | TB27- 11D | 16M | | 107 | | | | | | |
| B1260 | 46 | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B1260B | 41 | | | TB27- 13 | 16M | | 107 | | | | | | | SMLD B1260 | 25M | | | | | | | | |
| B1260L | | | | P25-BB | 25M | | | | | | | | | TB27- 14A | 16M | | 107 | | | | | | |
| B1260R | | | | P25-AA | 25M | | | | | | | | | TB27- 15A | 16M | | 107 | | | | | | |
| B1261 | 46 | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B1261B | 41 | | | TB27- 10 | 16M | | 107 | | | | | | | SMLD B1261 | 25M | | | | | | | | |
| B1261L | | | | P26-A* | 25M | | | | | | | | | TB27- 9C | 16M | | 107 | | | | | | |
| B1261R | | | | P26-Z | 25M | | | | | | | | | TB27- 8C | 16M | | 107 | | | | | | |
| B1262 | 46 | | | | 225 | 200 | 85 | | 7 | | | | | | 400 | 370 | 48 | 52 | 846 | | | | |
| B1262B | 41 | | | TB27- 4 | 16M | | 107 | | | | | | | SMLD B1262 | 25M | | | | | | | | |
| B1262L | | | | P26-R* | 25M | | | | | | | | | TB27- 5D | 16M | | 107 | | | | | | |
| B1262R | | | | P26-Q* | 25M | | | | | | | | | TB27- 3D | 16M | | 107 | | | | | | |
| B1263 | | | | DELETED | | | | | | | | | | | | | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE
A

1900943

SCALE - NONE

REV LTR AR

SHEET 150 OF 188

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|---------------|-----|---|---------------|---------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1268 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B1268A | 41 | SHLD B1268 | 25N | | | P14-A* | 25N | | |
| B1268B | 41 | TB17- 4CD | 16N | 107 | | SHLD B1268 | 25N | | |
| B1268E | | P14-B* | 25N | | | TB17- 4AB | 16N | 107 | |
| B1269 | 40 | P23-A | 25N | | | TB25- 16 | 20N | 111 | |
| B1270 | 42 | J24-AA | 25N | | | P37-R* | 25N | | |
| B1271 | 42 | J24-Z* | 25N | | | P37-K* | 25N | | |
| B1272 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B1272A | 41 | SHLD B1272 | 25N | | | P14-N | 25N | | |
| B1272B | 41 | TB17- 5CD | 16N | 107 | | SHLD B1272 | 25N | | |
| B1272E | | P14-M | 25N | | | TB17- 5AB | 16N | 107 | |
| B1273 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B1273A | 41 | SHLD B1273 | 25N | | | P14-H* | 25N | | |
| B1273B | 41 | TB17- 7CD | 16N | 107 | | SHLD B1273 | 25N | | |
| B1273E | | P14-I* | 25N | | | TB17- 7AB | 16N | 107 | |
| B1274 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B1274A | 41 | SHLD B1274 | 25N | | | P15-Y | 25N | | |
| B1274B | 41 | TB17- 3CD | 16N | 107 | | SHLD B1274 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 152 OF 188 | | | |

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|---------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1274E | | P15-Z | 25N | | | TB17- 3AB | 16N | 107 | |
| B1275 | 42 | P25-E* | 25N | | | J16-CC | 25N | | |
| B1276 | 42 | P25-F* | 25N | | | J16-BB | 25N | | |
| B1277 | 42 | P25-G* | 25N | | | J16-FF | 25N | | |
| B1278 | 42 | P25-H* | 25N | | | J16-EE | 25N | | |
| B1279 | 42 | P25-I* | 25N | | | J16-X* | 25N | | |
| B1280 | 42 | P25-J* | 25N | | | J16-Y* | 25N | | |
| B1283 | 42 | J18-HH | 25N | | | P96-T | 25N | | |
| B1284 | 42 | J21-V* | 25N | | | TB21- 5CD | 16N | 107 | |
| B1285 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B1285B | 41 | TB19- 97 | 16N | 107 | | SHLD B1285 | 25N | | |
| B1285L | | P26-I* | 25N | | | TB19- 98CD | 16N | 107 | |
| B1285R | | P26-H* | 25N | | | TB19- 98AB | 16N | 107 | |
| B1286 | 42 | J18-J* | 25N | | | P92-Z | 25N | | |
| B1287 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B1287B | 41 | TB19- 15 | 16N | 107 | | SHLD B1287 | 25N | | |
| B1287L | | J17-FF | 25N | | | TB19- 16CD | 16N | 107 | |
| B1287R | | J17-EE | 25N | | | TB19- 16AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 153 OF 188 | | | |

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|---------------|-----|---|---------------|---------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1289 | 42 | J22-E* | 25N | | | TB18- 97CD | 16N | 107 | |
| B1290 | 41 | J25-EE | 25N | | | P92-K | 25N | | |
| B1291 | 41 | J25-X* | 25N | | | P92-E | 25N | | |
| B1292 | 42 | P25-T* | 25N | | | TB19- 40CD | 16N | 107 | |
| B1293 | 41 | TB22- 95AB | 16N | 107 | | P99-Z | 25N | | |
| B1294 | 42 | J18-DD | 25N | | | P99-H | 25N | | |
| B1295 | 42 | J18-EE | 25N | | | P99-G | 25N | | |
| B1297 | 42 | J21-T | 25N | | | P99-GG | 25N | | |
| B1298 | 42 | J21-CC | 25N | | | P98-PP | 25N | | |
| B1302 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B1302B | 41 | TB19- 18 | 16N | 107 | | SHLD B1302 | 25N | | |
| B1302L | | P 3-D | 25N | | | TB19- 19CD | 16N | 107 | |
| B1302R | | P 3-B | 25N | | | TB19- 19AB | 16N | 107 | |
| B1304 | 46 | | 225 | 200 48 52 846 | | | 225 | 200 85 | 7 |
| B1304A | 41 | SHLD B1304 | 25N | | | E 36 | 25N | | |
| B1304L | | P32-A* | 25N | | | J17-H* | 25N | | |
| B1304R | | P32-A | 25N | | | J17-G* | 25N | | |
| B1305 | 42 | J26-V* | 25N | | | P34-G* | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 154 OF 188 | | | |

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1307 | 42 | J26-FF | 25N | | | P99-U | 25N | | |
| B1308 | 42 | P25-S* | 25N | | | TB22- 2AB | 16N | 107 | |
| B1309 | | DELETED | | | | | | | |
| B1309B | | DELETED | | | | | | | |
| B1309L | | DELETED | | | | | | | |
| B1309R | | DELETED | | | | | | | |
| B1310 | | DELETED | | | | | | | |
| B1310B | | DELETED | | | | | | | |
| B1310L | | DELETED | | | | | | | |
| B1310R | | DELETED | | | | | | | |
| B1311 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1311B | 41 | SHLD B1311 | 25N | | | SHLD B1311 | 25N | | |
| B1311L | | P96-D* | 25N | | | TB22- 35CD | 17N | 107 | |
| B1311R | | P96-E* | 25N | | | TB22- 35AB | 17N | 107 | |
| B1312 | 99 | | 225 | 84 | 7A | | 400 | 102104 83 6 | |
| B1312B | 41 | SHLD B1312 | 25N | | | SHLD B1312 | 25N | | |
| B1312L | | P21-P* | 25N | | | TB20- 16CD | 17N | 108 | |
| B1312R | | P21-M* | 25N | | | TB20- 16AB | 17N | 108 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 155 OF 188 | | | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|-------------------|--|--------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| NUMBER | NO. | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| B1312Y | | P21-Q* | 25N | 7B19- 22AB | 17N 108 |
| B1313 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1313B | 41 | 800TB19- 33 | 17N 107 | SHLD B1313 | 25N |
| B1313L | | P20-Z | 25N | 7B19- 34 | 17N 107 |
| B1313R | | P20-Y | 25N | 7B19- 35 | 17N 107 |
| B1314 | 99 | | 225 | 84 | 7A 400 102104 85 6 |
| B1314B | 41 | 800TB20- 15 | 17N 108 | SHLD B1314 | 25N |
| B1314L | | P33-J | 25N | 7B20- 16CD | 17N 108 |
| B1314R | | P33-H | 25N | 7B20- 16AB | 17N 108 |
| B1314Y | | P33-G | 25N | 7B19- 22AB | 17N 108 |
| B1315 | 44 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1315B | 41 | 800TB20- 91 | 17N 107 | SHLD B1315 | 25N |
| B1315L | | P26-K* | 25N | 7B20- 92CD | 17N 107 |
| B1315R | | P26-J* | 25N | 7B20- 92AB | 17N 107 |
| B1316 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1316B | 41 | 800TB20- 94 | 17 107 | SHLD B1316 | 25N |
| B1316L | | P26-P | 25N | 7B20- 93CD | 17N 107 |
| B1316R | | P26-N | 25N | 7B20- 93AB | 17N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 156 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| NUMBER | NO. | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| B1317 | 44 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1317B | 41 | 800TB19- 33 | 17 107 | SHLD B1317 | 25N |
| B1317L | | P33-L | 25N | 7B19- 32CD | 17N 107 |
| B1317R | | P33-K | 25N | 7B19- 32AB | 17N 107 |
| B1318 | 44 | | 400 | 85 | 7A 400 48 52 84 6 |
| B1318B | 41 | 800TB19- 33 | 17N 107 | SHLD B1318 | 25N |
| B1318L | | 7B18- 8CD | 17N 107 | 7B19- 32CD | 17N 107 |
| B1318R | | 7B18- 8AB | 17N 107 | 7B19- 32AB | 17N 107 |
| B1319 | 46 | | 400 | 85 | 7A 400 48 52 84 6 |
| B1319B | 41 | 800TB19- 30 | 17N 107 | SHLD B1319 | 25N |
| B1319L | | 7B19- 6CD | 17N 107 | 7B19- 31CD | 17N 107 |
| B1319R | | 7B19- 6AB | 17N 107 | 7B19- 31AB | 17N 107 |
| B1320 | 42 | 7B19- 22CD | 17N 107 | 7B20- 16CD | 17N 107 |
| B1321 | 42 | 7B20- 11AB | 17N 107 | 7B18- 43 | 17N 107 |
| B1322 | 42 | 7B18- 48 | 17N 107 | 7B19- 48 | 17N 107 |
| B1323 | 42 | 7B19- 41 | 17N 107 | 7B20- 44 | 17N 107 |
| B1324 | 42 | 7B20- 47 | 17N 107 | 7B21- 48 | 17N 107 |
| B1325 | 42 | 7B20- 47 | 17N 107 | 7B22- 48 | 17N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 157 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| NUMBER | NO. | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| B1326 | 42 | 7B20- 44 | 17N 107 | 7B21- 44CD | 17N 107 |
| B1327 | 42 | P 5-U* | 25N | P39-Q* | 25N |
| B1328 | 42 | J22-F* | 25N | 7B18-100AB | 17N 107 |
| B1329 | 42 | J22-G* | 25N | 7B18-100CD | 17N 107 |
| B1330 | 42 | J22-H* | 25N | 7B20- 7AB | 17N 107 |
| B1331 | 42 | J22-J* | 25N | 7B21- 40CD | 17N 107 |
| B1332 | 42 | P36-JJ | 25N | 7B21- 40CD | 17N 107 |
| B1333 | 41 | P45-D | 25N | P45-E | 25N |
| B1334 | 41 | P45-G | 25N | P45-F | 25N |
| B1335 | 41 | P43-D | 25N | P43-E | 25N |
| B1336 | 41 | P43-G | 25N | P43-F | 25N |
| B1337 | 42 | 7B24- 7 | 20N 111 | 7B20- 37CD | 17N 107 |
| B1338 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1338B | 41 | 800TB19- 36 | 17N 107 | SHLD B1338 | 25N |
| B1338L | | J17-DD | 25N | 7B19- 34 | 17N 107 |
| B1338R | | J17-CC | 25N | 7B19- 35 | 17N 107 |
| B1339 | 14 | P20-CC | 25N | 7B19- 40AB | 17N 108 |
| B1340 | 14 | P34-P | 25N | 7B19- 40AB | 17N 108 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 158 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| NUMBER | NO. | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| B1341 | 16 | P25-S | 25N | 7B19- 40AB | 17N 108 |
| B1344 | 41 | P82-M* | 25N | J 3-EE | 25N |
| B1345 | 41 | P82-N* | 25N | J 3-W* | 25N |
| B1346 | 41 | P82-P* | 25N | J 3-FF | 25N |
| B1347 | 41 | P82-R* | 25N | J 3-GG | 25N |
| B1348 | | DELETE | | | |
| B1348B | | DELETE | | | |
| B1348L | | DELETE | | | |
| B1348R | | DELETE | | | |
| B1349 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1349B | 41 | 800TB19- 30 | 17N 107 | SHLD B1349 | 25N |
| B1349L | | P35-V | 25N | 7B19- 31CD | 17N 107 |
| B1349R | | P35-U | 25N | 7B19- 31AB | 17N 107 |
| B1350 | 42 | P35-Z* | 25N | J25-V* | 25N |
| B1351 | 45 | | 225 | 84 | 7A 300 50 54 84 6 |
| B1351B | 41 | E 50 | 25N | SHLD B1351 | 25N |
| B1351L | | P17-V | 25N | 7B 2- 3 | 20N 111 |
| B1351R | | P17-U | 25N | 7B 2- 5 | 20N 111 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 159 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------------|---|----------------------|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1352 | 41 | J17-LL | 25N | | | TB20- 4AB | 16N | 107 | |
| B1353 | 65 | | 23 | 91 90 | | | 225 | 86 87 85 6 | |
| B1353B | 41 | BOGTB25- 11 | 20N | 111 | | SHLD B1353 | 25N | | |
| B1353E | | P62-A1 | 12N | 89 | | TB25- 11 | 20N | 111 | |
| B1353X | | P62-A2 | | | | SHLD B1353 | | | |
| B1354 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1354B | 41 | BOGTB27- 1 | 17N | 107 | | SHLD B1354 | 25N | | |
| B1354L | | P37-X | 25N | | | TB27- 2B | 17N | 107 | |
| B1354R | | P37-Y | 25N | | | TB27- 2A | 17N | 107 | |
| B1355 | 7 | | 225 | 120 | 7A | | 225 | 117 118 85 6 | |
| B1355B | 41 | BOGTB27- 1 | 17N | 107 | | SHLD B1355 | 25N | | |
| B1355W | | P37-U | 25N | | | TB27- 2D | 17N | 107 | |
| B1356 | 7 | | 225 | 120 | 7A | | 225 | 117 118 85 6 | |
| B1356B | 41 | BOGTB27- 1 | 17N | 107 | | SHLD B1356 | 25N | | |
| B1356W | | P37-V | 25N | | | TB27- 2C | 17N | 107 | |
| B1357 | 7 | | 225 | 120 | 7A | | 225 | 117 118 85 6 | |
| B1357B | 41 | BOGTB27- 4 | 17N | 107 | | SHLD B1357 | 25N | | |
| B1357W | | P37-S | 25N | | | TB27- 3B | 17N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE-NONE | | REV LTR AR | SHEET 160 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------------|---|----------------------|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1358 | 7 | | 225 | 120 | 7A | | 225 | 117 118 85 6 | |
| B1358B | 41 | BOGTB27- 4 | 17N | 107 | | SHLD B1358 | 25N | | |
| B1358W | | P37-T | 25N | | | TB27- 3A | 17N | 107 | |
| B1359 | 41 | TB19- 50CD | 17N | 107 | | TB27- 2B | 17N | 107 | |
| B1360 | 16 | P90-M | 25N | | | TB25- 7 | 20N | 111 | |
| B1361 | | DELETE | | | | | | | |
| B1362 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1362B | 41 | BOGTB19- 7B | 17N | 107 | | SHLD B1362 | 25N | | |
| B1362L | | J25-U* | 25N | | | TB19- 77CD | 17N | 107 | |
| B1362R | | J25-T* | 25N | | | TB19- 77AB | 17N | 107 | |
| B1363 | 42 | J18-CC | 25N | | | TB22- 95AB | 17N | 107 | |
| B1364 | 41 | J16-F* | 25N | | | TB22- 96 | 17N | 107 | |
| B1365 | 41 | P35-Y* | 25N | | | TB22- 96 | 17N | 107 | |
| B1366 | 42 | P92-G | 25N | | | J25-FF | 25N | | |
| B1367 | 42 | P92-H | 25N | | | J25-BB | 25N | | |
| B1368 | 42 | P92-J | 25N | | | J25-AA | 25N | | |
| B1369 | 42 | P34-D | 25N | | | P20-A* | 25N | | |
| B1370 | 42 | P37-FF | 25N | | | TB19- 2AB | 17N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE-NONE | | REV LTR AR | SHEET 161 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------------|---|----------------------|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1371 | 41 | P24-E* | 25N | | | TB 8- 5 | 20N | 111 | |
| B1372 | 41 | P34-Y | 25N | | | TB 8- 4 | 20N | 111 | |
| B1373 | 41 | P38-C | 25N | | | TB20- 11CD | 17N | 107 | |
| B1376 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1376B | 41 | BOGTB18- 39 | 17N | 107 | | SHLD B1376 | 25N | | |
| B1376L | | P26-MH | 25N | | | TB18- 40CD | 17N | 107 | |
| B1376R | | P26-GG | 25N | | | TB18- 40AB | 17N | 107 | |
| B1377 | 42 | P20-MH | 25N | | | TB22- 40CD | 17N | 107 | |
| B1378 | 42 | TB21- 40AB | 17N | 107 | | TB21- 5AB | 17N | 107 | |
| B1379 | 42 | P96-M* | 25N | | | TB21- 5AB | 17N | 107 | |
| B1380 | 42 | P96-P* | 25N | | | P24-T | 17N | | |
| B1381 | 42 | P24-U | 25N | | | TB21- 5AB | 17N | 107 | |
| B1382 | 40 | J26-X | 20N | | | TB25- 12 | 20N | 111 | |
| B1383 | 40 | J26-Y | 20N | | | TB25- 12 | 20N | 111 | |
| B1384 | 40 | J26-Z | 20N | | | TB25- 13 | 20N | 111 | |
| B1385 | 40 | TB13- 2 | 20N | 111 | | TB25- 13 | 20N | 111 | |
| B1386 | 42 | J23-EE | 25N | | | TB19- 89AB | 17N | 107 | |
| B1387 | 42 | J23-FF | 25N | | | TB19- 89CD | 17N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE-NONE | | REV LTR AR | SHEET 162 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------------|---|----------------------|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1388 | 42 | J23-GG | 25N | | | TB19- 90AB | 17N | 107 | |
| B1389 | 42 | J23-MH | 25N | | | TB19- 90CD | 17N | 107 | |
| B1390 | 42 | J23-U* | 25N | | | TB19- 92AB | 17N | 107 | |
| B1391 | 42 | J23-V* | 25N | | | TB19- 92CD | 17N | 107 | |
| B1392 | 42 | J23-W* | 25N | | | TB19- 93AB | 17N | 107 | |
| B1393 | 42 | J23-X* | 25N | | | TB19- 93CD | 17N | 107 | |
| B1394 | 42 | J23-AA | 25N | | | TB19- 95AB | 17N | 107 | |
| B1395 | 42 | J23-BB | 25N | | | TB19- 95CD | 17N | 107 | |
| B1396 | 42 | J23-CC | 25N | | | TB19- 96AB | 17N | 107 | |
| B1397 | 42 | J23-DD | 25N | | | TB19- 96CD | 17N | 107 | |
| B1398 | 65 | | 23 | 91 90 | | | 225 | 86 87 85 6 | |
| B1398B | | DELETE | | | | | | | |
| B1398E | 65 | P52-M | 12N | 89 | | P65-J* | 12N | | |
| B1398X | | P52-L | | | | SHLD B1398 | | | |
| B1399 | 42 | P99-JJ | 25N | | | J16-LL | 25N | | |
| B1400 | 42 | P99-MM | 25N | | | J16-MH | 25N | | |
| B1401 | 42 | P99-LL | 25N | | | J16-PP | 25N | | |
| B1402 | 42 | P99-KK | 25N | | | J16-NN | 25N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE-NONE | | REV LTR AR | SHEET 163 OF 188 | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|----------|-----|-----|----|--|---|--|--|---|-----|-----|----|----|---|--|--|--|--|----------------------|-----|-----|----|----|---|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| ITEM NO. | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B1403 | 41 | J25-B | 25N | | | | | | | TB23- 4 | 20N | 111 | | | | | | | | TB23- 1 | 20N | 111 | | | | | | | |
| B1404 | 41 | J17-B | 25N | | | | | | | TB23- 4 | 20N | 111 | | | | | | | | TB23- 1 | 20N | 111 | | | | | | | |
| B1405 | 41 | J24-B | 25N | | | | | | | TB23- 4 | 20N | 111 | | | | | | | | TB23- 1 | 20N | 111 | | | | | | | |
| B1406 | 41 | J16-B | 25N | | | | | | | TB23- 1 | 20N | 111 | | | | | | | | TB23- 1 | 20N | 111 | | | | | | | |
| B1408 | 41 | J26-K* | 25N | | | | | | | TB21- 4AB | 17N | 107 | | | | | | | | TB21- 4AB | 17N | 107 | | | | | | | |
| B1409 | 41 | J16-KK | 25N | | | | | | | TB 9- 6 | 20N | 111 | | | | | | | | TB 9- 6 | 20N | 111 | | | | | | | |
| B1410 | 16 | J 4-T* | 25N | | | | | | | TB23- 16 | 20N | 111 | | | | | | | | TB23- 16 | 20N | 111 | | | | | | | |
| B1411 | 46 | | 225 | 200 | 85 | | 7 | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | |
| B1411B | 41 | TB17-100 | 16N | 107 | | | | | | SHLD B1411 | 25N | | | | | | | | | SHLD B1411 | 25N | | | | | | | | |
| B1411L | | P85-LL | 25N | | | | | | | TB17- 99CD | 16N | 107 | | | | | | | | TB17- 99CD | 16N | 107 | | | | | | | |
| B1411R | | P85-KK | 25N | | | | | | | TB17- 99AB | 16N | 107 | | | | | | | | TB17- 99AB | 16N | 107 | | | | | | | |
| B1412 | 46 | | 225 | 200 | 85 | | 7 | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | |
| B1412B | 41 | TB19- 33 | 16N | 107 | | | | | | SHLD B1412 | 25N | | | | | | | | | SHLD B1412 | 25N | | | | | | | | |
| B1412L | | P35-R | 25N | | | | | | | TB19- 32CD | 16N | 107 | | | | | | | | TB19- 32CD | 16N | 107 | | | | | | | |
| B1412R | | P35-P | 25N | | | | | | | TB19- 32AB | 16N | 107 | | | | | | | | TB19- 32AB | 16N | 107 | | | | | | | |
| B1413 | 46 | | 225 | 200 | 85 | | 7 | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | |
| B1413B | 41 | TB18- 36 | 16N | 107 | | | | | | SHLD B1413 | 25N | | | | | | | | | SHLD B1413 | 25N | | | | | | | | |
| B1413L | | P32-MM | 25N | | | | | | | TB18- 35CD | 16N | 107 | | | | | | | | TB18- 35CD | 16N | 107 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | A | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | 1900943 | | | | | | | | | | SHEET 164 OF 188 | | | | | | | | | |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|----------|-----|-----|----|--|---|--|--|---|-----|-----|----|----|---|--|--|--|--|----------------------|-----|-----|----|----|---|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| ITEM NO. | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B1413R | | P32-PP | 25N | | | | | | | TB18- 35AB | 16N | 107 | | | | | | | | TB18- 35AB | 16N | 107 | | | | | | | |
| B1414 | 46 | | 225 | 200 | 85 | | 7 | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | |
| B1414B | 41 | TB18- 30 | 16N | 107 | | | | | | SHLD B1414 | 25N | | | | | | | | | SHLD B1414 | 25N | | | | | | | | |
| B1414L | | P32-FF | 25N | | | | | | | TB18- 31CD | 16N | 107 | | | | | | | | TB18- 31CD | 16N | 107 | | | | | | | |
| B1414R | | P32-MM | 25N | | | | | | | TB18- 31AB | 16N | 107 | | | | | | | | TB18- 31AB | 16N | 107 | | | | | | | |
| B1415 | 46 | | 225 | 200 | 85 | | 7 | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | | 400 | 370 | 48 | 52 | 84 | 6 | | | | |
| B1415B | 41 | TB18- 33 | 16N | 107 | | | | | | SHLD B1415 | 25N | | | | | | | | | SHLD B1415 | 25N | | | | | | | | |
| B1415L | | P32-Z | 25N | | | | | | | TB18- 32CD | 16N | 107 | | | | | | | | TB18- 32CD | 16N | 107 | | | | | | | |
| B1415R | | P32-Y | 25N | | | | | | | TB18- 32AB | 16N | 107 | | | | | | | | TB18- 32AB | 16N | 107 | | | | | | | |
| B1416 | 42 | P33-M | 25N | | | | | | | P34-Z* | 25N | | | | | | | | | P34-Z* | 25N | | | | | | | | |
| B1417 | 42 | P33-N | 25N | | | | | | | P34-AA | 25N | | | | | | | | | P34-AA | 25N | | | | | | | | |
| B1418 | 42 | P33-P | 25N | | | | | | | P34-BB | 25N | | | | | | | | | P34-BB | 25N | | | | | | | | |
| B1419 | 42 | P33-R | 25N | | | | | | | J22-K | 25N | | | | | | | | | J22-K | 25N | | | | | | | | |
| B1420 | 42 | J22-R | 25N | | | | | | | TB21- 63CD | 16N | 107 | | | | | | | | TB21- 63CD | 16N | 107 | | | | | | | |
| B1421 | 42 | J22-P | 25N | | | | | | | TB21- 60CD | 16N | 107 | | | | | | | | TB21- 60CD | 16N | 107 | | | | | | | |
| B1422 | 42 | J22-M | 25N | | | | | | | TB21- 56 | 16N | 107 | | | | | | | | TB21- 56 | 16N | 107 | | | | | | | |
| B1425 | 41 | J 3-D* | 25N | | | | | | | TB23- 15 | 20N | 111 | | | | | | | | TB23- 15 | 20N | 111 | | | | | | | |
| B1426 | 41 | J4-U | 25N | | | | | | | TB23- 16 | 20N | 111 | | | | | | | | TB23- 16 | 20N | 111 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | A | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | 1900943 | | | | | | | | | | SHEET 165 OF 188 | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----|--|----------|--|-----|--|-----|--|---|--|-----|--|-----|--|---------|--|------------|--|----------------------|--|-----|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| GHI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | | | | | |
| TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | |
| NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | NO. | | | | | | | | | | | | | | | | | |
| B1427 | | 41 | | J18-B | | 25N | | | | | | | | | | TB23- 2 | | 20N | | 111 | | | | | | | | | | | | | | | | | | | |
| B1428 | | 41 | | J19-J0 | | 25N | | | | | | | | | | | | TB23- 2 | | 20N | | 111 | | | | | | | | | | | | | | | | | |
| B1429 | | 41 | | J20-H | | 25N | | | | | | | | | | | | TB23- 3 | | 20N | | 111 | | | | | | | | | | | | | | | | | |
| B1430 | | 41 | | J21-B | | 25N | | | | | | | | | | | | TB23- 3 | | 20N | | 111 | | | | | | | | | | | | | | | | | |
| B1431 | | 41 | | J26-B | | 25N | | | | | | | | | | | | TB23- 5 | | 20N | | 111 | | | | | | | | | | | | | | | | | |
| B1432 | | 42 | | P98-F | | 25N | | | | | | | | | | | | TB17- 89AB | | 16N | | 107 | | | | | | | | | | | | | | | | | |
| B1433 | | 41 | | TB12- 10 | | 20N | | 111 | | | | | | | | | | TB17- 89CD | | 16N | | 107 | | | | | | | | | | | | | | | | | |
| B1434 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1435 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1436 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1437 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1438 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1439 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1440 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1441 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1442 | | 14 | | E 25 | | 25N | | | | | | | | | | E 27 | | 25N | | | | | | | | | | | | | | | | | | | | | |
| B1443 | | 16 | | E 26 | | 25N | | | | | | | | | | E 27 | | 25N | | | | | | | | | | | | | | | | | | | | | |
| B1444 | | 14 | | TB23- 25 | | 20N | | 111 | | | | | | | | E 27 | | 25N | | | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | | 1900943 | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR AR | | | | | | | | | | SHEET 166 OF 188 | | | | | | | | | |

| CONDUCTOR | | | | FROM | | | | | TO | | | | | | |
|-------------------|----------|---|---|------------------------------------|-----|-----|-------------------|---|-----|--------------------|---|------------|-------------------|-----|------------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. |
| NUMBER | ITEM NO. | 1 | 2 | STRIP WIRE OR JACKET CIRCUIT POINT | 3 | 4 | ITEM NO. | 5 | | 6 | 7 | 8 | ITEM NO. | 9 | |
| B1463 | 16 | | | TB11- 6 | 20N | | 111 | | | | | E 46 | 25N | | |
| B1464 | 16 | | | E 47 | 25N | | | | | | | E 50 | 25N | | |
| B1465 | 16 | | | E 48 | 25N | | | | | | | E 51 | 25N | | |
| B1466 | 42 | | | J22-M | 25N | | | | | | | TB20- 5AB | 16N | 107 | |
| B1467 | 41 | | | J18-C | 25N | | | | | | | TB 1- 6 | 25N | 111 | |
| B1468 | 46 | | | | 22S | 200 | 85 | | 7 | | | | 400 | 370 | 48 52 84 6 |
| B1468B | 41 | | | TB20- 69 | 16N | | 107 | | | | | SMLD B1468 | | | |
| B1468L | | | | P99-X* | 25N | | | | | | | TB20- 70 | 16N | 107 | |
| B1468R | | | | P99-Y* | 25N | | | | | | | TB20- 71 | 16N | 107 | |
| B1469 | 46 | | | | 22S | 200 | 85 | | 7 | | | | 22S | 200 | 48 52 84 5 |
| B1469B | 41 | | | E 30 | 25N | | | | | | | SMLD B1469 | | | |
| B1469L | | | | P99-A | 25N | | | | | | | P21-V | 25N | | |
| B1469R | | | | P99-B | 25N | | | | | | | P21-W | 25N | | |
| B1470 | 16 | | | E 49 | 25N | | | | | | | E 51 | 25N | | |
| B1471 | 16 | | | TB 2- 7 | 20N | | 111 | | | | | E 51 | 25N | | |
| B1472 | 16 | | | E 50 | 25N | | | | | | | E 51 | 25N | | |
| B1473 | 16 | | | E 52 | 25N | | | | | | | E 54 | 25N | | |
| B1474 | 16 | | | TB 4- 5 | 20N | | 111 | | | | | E 54 | 25N | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
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SCALE - NONE

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| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----|---------------------|-----|--------------------|----|---------------------|---|---------------|-----|---------------|------------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | |
| ITEM NO. | | STEP WIRE OR JACKET | | ITEM NO. | | STEP WIRE OR JACKET | | ITEM NO. | | TERMINATION | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| B1475 | 14 | E 53 | 25M | | | | | E 54 | 25M | | |
| B1476 | 14 | E 55 | 25M | | | | | E 56 | 25M | | |
| B1477 | 14 | T823- 21 | 20M | 111 | | | | E 56 | 25M | | |
| B1478 | 14 | E 57 | 25M | | | | | E 58 | 25M | | |
| B1479 | 14 | T815- 5 | 20M | 111 | | | | E 58 | 25M | | |
| B1480 | 42 | P40-S* | 25M | | | | | P47-M* | 25M | | |
| B1481 | 42 | P90-C | 25M | | | | | P34-Z | 25M | | |
| B1482 | 42 | P90-D | 25M | | | | | P25-W | 25M | | |
| B1483 | 41 | J22-1* | 25M | | | | | T821- 4CD | 16M | 107 | |
| B1484 | 42 | P21-U | 25M | | | | | T820- 5AB | 16M | 107 | |
| B1485 | 42 | P33-S | 25M | | | | | T820- 5AB | 16M | 107 | |
| B1486 | 41 | E 59 | 25M | | | | | T823- 20 | 25M | 111 | |
| B1487 | 40 | J26-C | 25M | 157 | | | | T8 9- 1 | 20M | 111 | |
| B1488 | 40 | J26-D | 25M | 157 | | | | T812- 10 | 20M | 111 | |
| B1489 | 46 | | 225 | 200 | 85 | | 7 | | 400 | 370 | 48 52 84 6 |
| B1489B | 41 | T819- 7 | 16M | 107 | | | | SHLD B1489 | 25M | | |
| B1489L | | P21-D | 25M | | | | | T819- 6CD | 16M | 107 | |
| B1489R | | P21-C | 25M | | | | | T819- 6AB | 16M | 107 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
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HOUSTON, TEXAS

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SHEET 169 OF 168

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|---------------------|----------|---------------|---|--------------------|------|--------|---|---------------------|------------|------------------|-----------|------|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | |
| STEP WIRE OR JACKET | | CIRCUIT POINT | | TERMINATION SPEC | | NO. | | STEP WIRE OR JACKET | | TERMINATION SPEC | | NO. | |
| NUMBER | ITEM NO. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| B1490 | | | | TB27- 10 | 16N | 107 | | | E 22 | 25N | | | |
| B1491 | | | | TB27- 22 | 16N | 107 | | | E 22 | 25N | | | |
| B1492 | | | | TB27- 28 | 16N | 107 | | | E 22 | 25N | | | |
| B1493 | 41 | | | TB20- 11CD | 17N | 107 | | | TB 9- 6 | 20N | 111 | | |
| B1494 | 42 | | | P16-V | 25N | | | | P16-X | 25N | | | |
| B1495 | 42 | | | P16-Z | 25N | | | | P16-B* | 25N | | | |
| B1496 | 42 | | | P16-N* | 25N | | | | P17-G | 25N | | | |
| B1497 | 42 | | | P16-G | 25N | | | | P16-J | 25N | | | |
| B1498 | 42 | | | P16-L | 25N | | | | P16-N | 25N | | | |
| B1499 | 42 | | | P16-R | 25N | | | | P17-K* | 25N | | | |
| B1500 | 42 | | | P16-D* | 25N | | | | P16-G* | 25N | | | |
| B1501 | 42 | | | P16-C | 25N | | | | P16-E | 25N | | | |
| B1502 | 7 | | | | 225N | 200120 | | 7A | | 225N | 200117110 | 85 6 | |
| B1502B | 41 | | | TB19- 39 | 25N | 107 | | | SHLD B1502 | 25N | | | |
| B1502M | | | | TB 3- 9 | 20N | 111 | | | TB19- 38AB | 16N | 107 | | |
| B1503 | 41 | | | TB25- 20 | 20N | 111 | | | TB19- 38CD | 16N | 107 | | |
| B1504 | 16 | | | P43-B | 25N | | | | P43-C | 25N | | | |
| B1505 | 16 | | | P45-B | 25N | | | | P45-C | 25N | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

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1900943

SHEET 170 OF 181

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|----------|-----|----------------------|---------------|--------------------|------|-------------|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | |
| B1506 | 41 | E 60 | 25N | | | E 63 | 25N | | | | |
| B1507 | 41 | E 61 | 25N | | | T823- 26 | 20N | 111 | | | |
| B1508 | 41 | E 62 | 25N | | | T823- 27 | 20N | 111 | | | |
| B1509 | 41 | E 63 | 25N | | | T823- 29 | 20N | 111 | | | |
| B1510 | 42 | P37-N | 25N | | | T827-8A | 16N | 108 | | | |
| B1511 | 42 | P 5-B | 25N | | | T818-83AB | 16N | 107 | | | |
| B1512 | 42 | P 5-T* | 25N | | | T818-83CD | 16N | 107 | | | |
| B1513 | 7 | | 225N | 200120 | 7A | | 225N | 200117118 | 85 6 | | |
| B1513A | 41 | SHLD B1513 | 25N | | | E 26 | 25N | | | | |
| B1513W | | J22-A | 25N | | | P11-U | 25N | | | | |
| B1514 | | DELETED | | | | | | | | | |
| B1515 | | DELETED | | | | | | | | | |
| B1515L | | DELETED | | | | | | | | | |
| B1515W | | DELETED | | | | | | | | | |
| B1515Y | | DELETED | | | | | | | | | |
| B1516 | | DELETED | | | | | | | | | |
| B1517 | | DELETED | | | | | | | | | |
| B1517L | | DELETED | | | | | | | | | |

➤ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

➤ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MAHMO
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
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| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|---|----------------------|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1517R | | DELETED | | | | | | | |
| B1517Y | | DELETED | | | | | | | |
| B1518 | | DELETED | | | | | | | |
| B1519 | | DELETED | | | | | | | |
| B1519L | | DELETED | | | | | | | |
| B1519R | | DELETED | | | | | | | |
| B1519Y | | DELETED | | | | | | | |
| B1520 | | DELETED | | | | | | | |
| B1521 | | DELETED | | | | | | | |
| B1521L | | DELETED | | | | | | | |
| B1521R | | DELETED | | | | | | | |
| B1521Y | | DELETED | | | | | | | |
| B1522 | | DELETED | | | | | | | |
| B1523 | | DELETED | | | | | | | |
| B1523L | | DELETED | | | | | | | |
| B1523R | | DELETED | | | | | | | |
| B1523Y | | DELETED | | | | | | | |
| B1524 | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 172 OF 188 SIZE A 1900943 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|---|----------------------|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1525 | | DELETED | | | | | | | |
| B1525L | | DELETED | | | | | | | |
| B1525R | | DELETED | | | | | | | |
| B1525Y | | DELETED | | | | | | | |
| B1526 | | DELETED | | | | | | | |
| B1527 | | DELETED | | | | | | | |
| B1527L | | DELETED | | | | | | | |
| B1527R | | DELETED | | | | | | | |
| B1527Y | | DELETED | | | | | | | |
| B1528 | | DELETED | | | | | | | |
| B1529 | 42 | P37-P | 25N | | | TB27-9A | 16N | 108 | |
| B1530 | | DELETED | | | | | | | |
| B1530L | | DELETED | | | | | | | |
| B1530R | | DELETED | | | | | | | |
| B1530Y | | DELETED | | | | | | | |
| B1531 | 7 | | 225 | 200120 | | | 225 | 200117118 | 85 |
| B1531B | 41 | TB20- 69 | 16N | 107 | | SHLD B1531 | 25N | | |
| B1531M | | P26-T | 25N | | | TB20-68AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 173 OF 188 SIZE A 1900943 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|---|----------------------|---------------|-------------|----------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1532 | 47 | | 225 | 200 | 85 | | 225 | 200 | 48 52 84 |
| B1532B | 41 | TB21- 1 | 16N | 107 | | SHLD B1532 | 25N | | |
| B1532L | | J17-L | 25N | | | TB21-2CD | 16N | 107 | |
| B1532R | | J17-K | 25N | | | TB21-2AB | 16N | 107 | |
| B1533 | 7 | | 225 | 200120 | | | 225 | 200117118 | 85 |
| B1533B | 41 | TB20- 69 | 16N | 107 | | SHLD B1533 | 25N | | |
| B1533M | | P26-U | 25N | | | TB20-68CD | 16N | 107 | |
| B1534 | 47 | | 225 | 200 | 85 | | 225 | 200 | 48 52 84 |
| B1534B | 41 | TB21- 1 | 16N | 107 | | SHLD B1534 | 25N | | |
| B1534L | | P35-H* | 25N | | | TB21-2CD | 16N | 107 | |
| B1534R | | P35-I* | 25N | | | TB21-2AB | 16N | 107 | |
| B1535 | 42 | P96-PP | 25N | | | P99-EE | 25N | | |
| B1536 | 42 | P96-MM | 25N | | | P99-D | 25N | | |
| B1537 | 42 | P96-LL | 25N | | | P34-I* | 25N | | |
| B1538 | 42 | P96-NN | 25N | | | J21-W* | 25N | | |
| B1539 | 42 | P92-PP | 25N | | | P99-PP | 25N | | |
| B1540 | 42 | P92-NN | 25N | | | P99-NN | 25N | | |
| B1541 | 41 | P37-W | 25N | | | TB20-5AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 174 OF 188 SIZE A 1900943 | | | | |

GM1

WIRING HARNESS B

AA-AJ 1900943

| CONDUCTOR | | FROM | | TO | |
|---|------|-------------|----------|------------------|----------------|
| NUMBER | ITEM | TERMINATION | ITEM NO. | TERMINATION | ITEM NO. |
| B1542 | 65 | 52 | 23 90 91 | 225 | 200 86 87 85 6 |
| B1542E | 42 | 16N | 107 | SHLD B1542 | 25N |
| B1542E | | P68-D1 | 11N | 89 | 107 |
| B1542E | | P68-D2 | | SHLD B1542 | |
| B1543 | 42 | P99-MH | 25N | 17N | 107 |
| B1544 | 42 | P33-Y | 25N | 17N | 107 |
| B1545 | 42 | J26-EE | 25N | 17N | 107 |
| B1546 | 42 | P33-F | 25N | 17N | 107 |
| B1547 | 41 | P24-C | 25N | P31-U8 | 25N |
| B1548 | 41 | P24-D | 25N | P34-Y8 | 25N |
| B1549 | 41 | P34-M8 | 25N | 16N | 107 |
| B1550 | 41 | J16-M | 25N | P26-Y | 25N |
| B1551 | 41 | J16-A | 25N | P26-V8 | 25N |
| B1552 | 41 | J16-R | 25N | P26-KK | 25N |
| B1553 | 41 | J16-P | 25N | 111 | |
| B1554 | | DELETED | | | |
| B1555 | 41 | 1- 7 | 20N | 111 | |
| B1556 | 41 | 1- 7 | 20N | 111 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | 1900943 | |
| SCALE: NONE | | | | REV LTR AA-AJ | |
| | | | | SHEET 175 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|-------------------|---|------------------------|--------------|---|------------------------|------------------|---------|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | |
| | | | | | | | | | |
| B1557 | 41 | | TB 1- 7 | 20N | 111 | P26-U* | 25N | | |
| B1558 | 42 | | P26-X | 25N | | P26-X | 25N | | |
| B1559 | 43 | | P26-Y | 25N | | P26-Y | 25N | | |
| B1560 | 44 | | P26-Z | 25N | | P26-Z | 25N | | |
| B1561 | 41 | | P35-AA | 25N | | TB17- 90AB | 16N | 107 | |
| B1562 | 46 | | | 225 | 200 85 | | 400N | 370 48 52 84 | |
| B1562B | 41 | | TB17- 94 | 16N | 107 | SHLD B1562 | 25N | | |
| B1562L | | | P9-T* | 25N | | TB17- 93CD | 16N | 107 | |
| B1562R | | | P9-S* | 25N | | TB17- 93AB | 16N | 107 | |
| B1563 | 16 | | J19-A | 25N | | E 81 | 25N | | |
| B1564 | 16 | | P37-J | 25N | | E 82 | 25N | | |
| B1565 | 16 | | J19-S* | 25N | | E 83 | 25N | | |
| B1566 | 16 | | P37-G | 25N | | E 84 | 25N | | |
| B1567 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1567A | 41 | | SHLD B1567 | 25N | | E 97 | 25N | | |
| B1567L | | | E 83 | 25N | | E 84 | 25N | | |
| B1567R | | | E 81 | 25N | | E 82 | 25N | | |
| B1568 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| | | | | | | SCALE - NONE | | REV LTR | AR AT |
| | | | | | | | | SHEET 176 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|-------------------|---|------------------------|--------------|---|------------------------|------------------|---------|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | |
| | | | | | | | | | |
| B1568A | 41 | | SHLD B1568 | 25N | | E 97 | 25N | | |
| B1568L | | | E 83 | 25N | | E 84 | 25N | | |
| B1568R | | | E 81 | 25N | | E 82 | 25N | | |
| B1569 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1569A | 41 | | SHLD B1569 | 25N | | E 97 | 25N | | |
| B1569L | | | E 83 | 25N | | E 84 | 25N | | |
| B1569R | | | E 81 | 25N | | E 82 | 25N | | |
| B1570 | 16 | | J19-B | 25N | | E 85 | 25N | | |
| B1571 | 16 | | P37-F | 25N | | E 86 | 25N | | |
| B1572 | 16 | | J19-T* | 25N | | E 87 | 25N | | |
| B1573 | 16 | | P37-H | 25N | | E 88 | 25N | | |
| B1574 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1574A | 41 | | SHLD B1574 | 25N | | E 97 | 25N | | |
| B1574L | | | E 87 | 25N | | E 88 | 25N | | |
| B1574R | | | E 85 | 25N | | E 86 | 25N | | |
| B1575 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1575A | 41 | | SHLD B1575 | 25N | | E 97 | 25N | | |
| B1575L | | | E 87 | 25N | | E 88 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| | | | | | | SCALE - NONE | | REV LTR | AR |
| | | | | | | | | SHEET 177 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|-------------------|---|------------------------|--------------|---|------------------------|------------------|---------|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | |
| | | | | | | | | | |
| B1575R | | | E 85 | 25N | | E 86 | 25N | | |
| B1576 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1576A | 41 | | SHLD B1576 | 25N | | E 97 | 25N | | |
| B1576L | | | E 87 | 25N | | E 88 | 25N | | |
| B1576R | | | E 85 | 25N | | E 86 | 25N | | |
| B1577 | 16 | | J19-E* | 25N | | E 89 | 25N | | |
| B1578 | 16 | | P11-M | 25N | | E 90 | 25N | | |
| B1579 | 16 | | J19-F* | 25N | | E 91 | 25N | | |
| B1580 | 16 | | P11-L | 25N | | E 92 | 25N | | |
| B1581 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1581A | 41 | | SHLD B1581 | 25N | | E 98 | 25N | | |
| B1581L | | | E 91 | 25N | | E 92 | 25N | | |
| B1581R | | | E 89 | 25N | | E 90 | 25N | | |
| B1582 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1582A | 41 | | SHLD B1582 | 25N | | E 98 | 25N | | |
| B1582L | | | E 91 | 25N | | E 92 | 25N | | |
| B1582R | | | E 89 | 25N | | E 90 | 25N | | |
| B1583 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| | | | | | | SCALE - NONE | | REV LTR | AR |
| | | | | | | | | SHEET 178 OF 188 | |

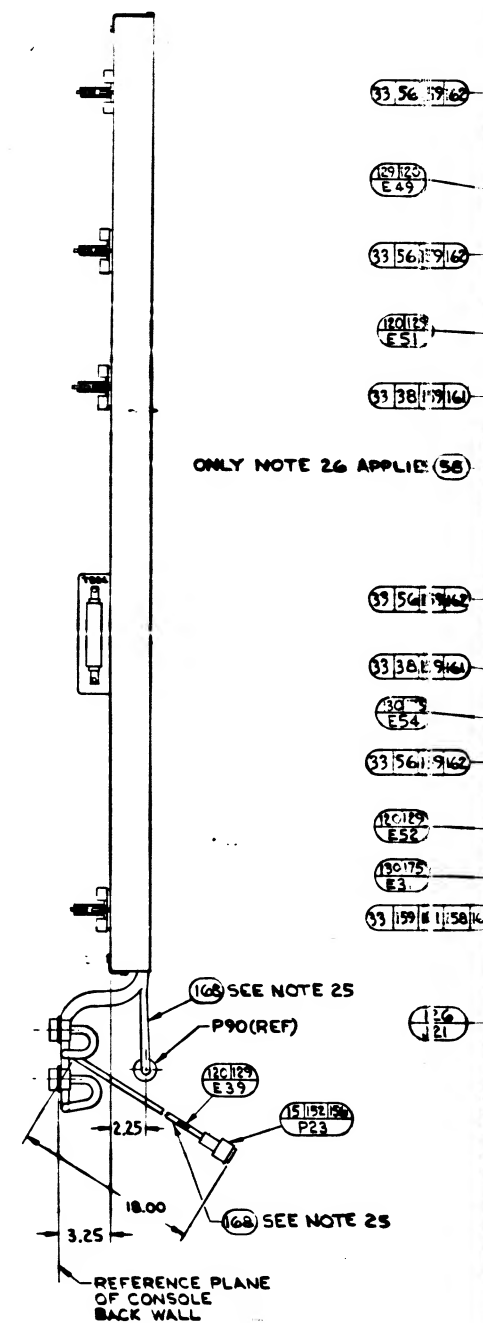
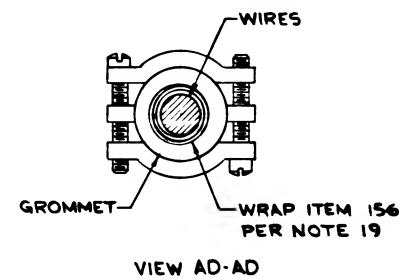
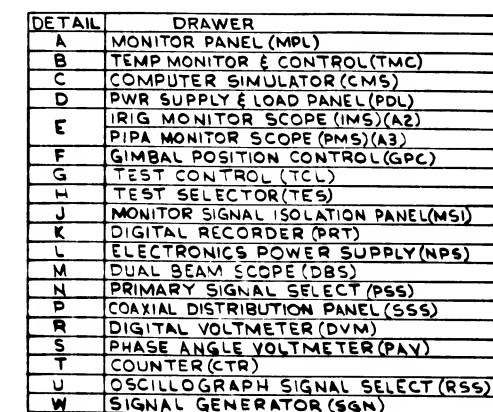
| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|-------------------|---|------------------------|--------------|---|------------------------|------------------|---------|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | |
| | | | | | | | | | |
| B1583A | 41 | | SHLD B1583 | 25N | | E 98 | 25N | | |
| B1583L | | | E 91 | 25N | | E 92 | 25N | | |
| B1583R | | | E 89 | 25N | | E 90 | 25N | | |
| B1584 | 16 | | J19-Q* | 25N | | E 93 | 25N | | |
| B1585 | 16 | | P11-N | 25N | | E 94 | 25N | | |
| B1586 | 16 | | J19-R* | 25N | | E 95 | 25N | | |
| B1587 | 16 | | P11-P | 25N | | E 96 | 25N | | |
| B1588 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1588A | 41 | | SHLD B1588 | 25N | | E 98 | 25N | | |
| B1588L | | | E 95 | 25N | | E 96 | 25N | | |
| B1588R | | | E 93 | 25N | | E 94 | 25N | | |
| B1589 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1589A | 41 | | SHLD B1589 | 25N | | E 98 | 25N | | |
| B1589L | | | E 95 | 25N | | E 96 | 25N | | |
| B1589R | | | E 93 | 25N | | E 94 | 25N | | |
| B1590 | 45 | | | 225 | 200 50 54 84 | | 225 | 200 84 | |
| B1590A | 41 | | SHLD B1590 | 25N | | E 98 | 25N | | |
| B1590L | | | E 95 | 25N | | E 96 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900943 |
| | | | | | | SCALE - NONE | | REV LTR | AR |
| | | | | | | | | SHEET 179 OF 188 | |

| WIRING HARNESS B | | | | | | | | | |
|--|----|------------|------------------|--|--|-----------------------------|------------------|--|--|
| 1900943 | | | | | | | | | |
| GM1 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | |
| FROM | | | | | | | | | |
| TO | | | | | | | | | |
| TERMINATION | | | | | | | | | |
| SPEC | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| B1590R | | E 93 | 25N | | | E 94 | 25N | | |
| B1591 | 16 | E 97 | 25N | | | E 98 | 25N | | |
| B1592 | 16 | J19-V | 25N | | | E 97 | 25N | | |
| B1594 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1594A | 41 | SHLD B1594 | 25N | | | P14-B | 25N | | |
| B1594B | 41 | T817- 9CD | 16N 107 | | | SHLD B1594 | 25N | | |
| B1594E | | P14-C | 25N | | | T817- 9AB | 16N 107 | | |
| B1595 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1595B | 41 | T817- 9CD | 16N 107 | | | SHLD B1595 | 25N | | |
| B1595E | | P94-A1 | 11N 89 | | | T817- 9AB | 16N 107 | | |
| B1595K | | P94-A2 | | | | SHLD B1595 | | | |
| B1596 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1596A | 41 | SHLD B1596 | 25N | | | P14-K* | 25N | | |
| B1596B | 41 | T817- 11CD | 16N 107 | | | SHLD B1596 | 25N | | |
| B1596E | | P14-J* | 25N | | | T817- 11AB | 16N 107 | | |
| B1597 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1597B | 41 | T817- 11CD | 16N 107 | | | SHLD B1597 | 25N | | |
| B1597E | | P94-B1 | 11N 89 | | | T817- 11AB | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | 1900943 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A | | | |
| SCALE-NONE | | | | | | REV LTR AR SHEET 180 OF 188 | | | |

| WIRING HARNESS B | | | | | | | | | |
|--|----|------------|------------------|--|--|--------------------------------|------------------|--|--|
| 1900943 | | | | | | | | | |
| GM1 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | |
| FROM | | | | | | | | | |
| TO | | | | | | | | | |
| TERMINATION | | | | | | | | | |
| SPEC | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| B1597X | | P94-B2 | | | | SHLD B1597 | | | |
| B1598 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1598A | 41 | SHLD B1598 | 25N | | | P14-Q* | 25N | | |
| B1598B | 41 | T817- 6CD | 16N 107 | | | SHLD B1598 | 25N | | |
| B1598E | | P14-P* | 25N | | | T817- 6AB | 16N 107 | | |
| B1599 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1599B | 41 | T817- 6CD | 16N 107 | | | SHLD B1599 | 25N | | |
| B1599E | | P94-C1 | 11N 89 | | | T817- 6AB | 16N 107 | | |
| B1599X | | P94-C2 | | | | SHLD B1599 | | | |
| B1600 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1600A | 41 | SHLD B1600 | 25N | | | P14-M* | 25N | | |
| B1600B | 41 | T817- 8CD | 16N 107 | | | SHLD B1600 | 25N | | |
| B1600E | | P14-N* | 25N | | | T817- 8AB | 16N 107 | | |
| B1601 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1601B | 41 | T817- 8CD | 16N 107 | | | SHLD B1601 | 25N | | |
| B1601E | | P94-D1 | 11N 89 | | | T817- 8AB | 16N 107 | | |
| B1601X | | P94-D2 | | | | SHLD B1601 | | | |
| B1624 | 41 | P92-N | 25N | | | J25-P | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | 1900943 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A | | | |
| SCALE-NONE | | | | | | REV LTR AR AC SHEET 181 OF 188 | | | |

| WIRING HARNESS "B" | | | | | | | | | |
|--|----|---------|------------|--|--|-----------------------------|------------------|--|--|
| 1900943 | | | | | | | | | |
| GM1 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | |
| FROM | | | | | | | | | |
| TO | | | | | | | | | |
| TERMINATION | | | | | | | | | |
| SPEC | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| B1625 | 46 | | 225 200 85 | | | | 400 370 48 52 84 | | |
| B1625B | 41 | T819-80 | 16N 107 | | | SHLD B1625 | 25N | | |
| B1625R | | P84-HH | 25N | | | T819-79AB | 16N 107 | | |
| B1625L | | P84-JJ | 25N | | | T819-79CD | 16N 107 | | |
| B1626 | 46 | | 225 200 85 | | | | 400 370 48 52 84 | | |
| B1626B | 41 | T819-82 | 16N 107 | | | SHLD B1626 | 25N | | |
| B1626R | | P85-HH | 25N | | | T819-81AB | 16N 107 | | |
| B1626L | | P85-JJ | 25N | | | T819-81CD | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | 1900943 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A | | | |
| SCALE-NONE | | | | | | REV LTR AU SHEET 182 OF 188 | | | |

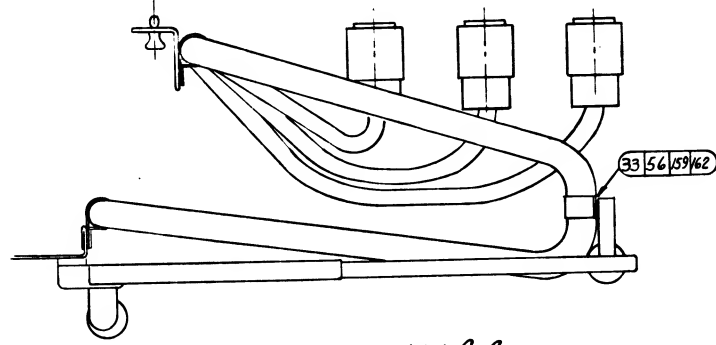
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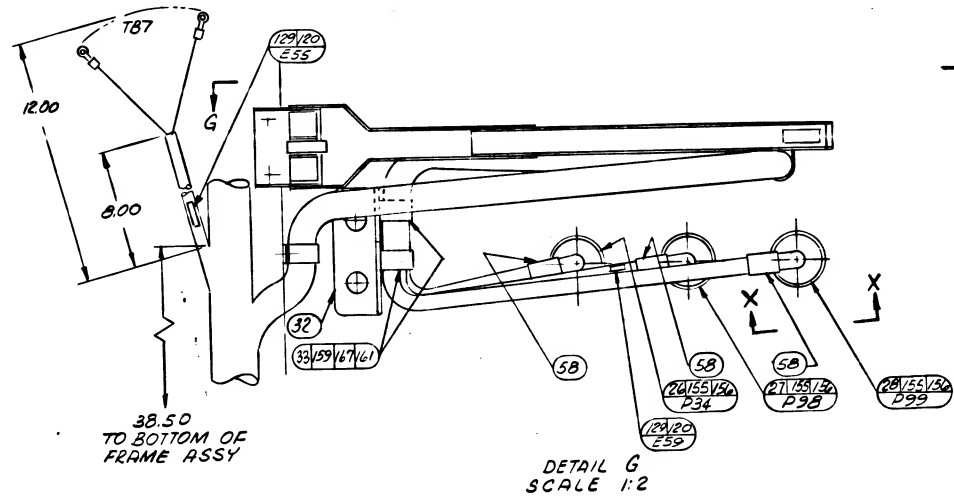
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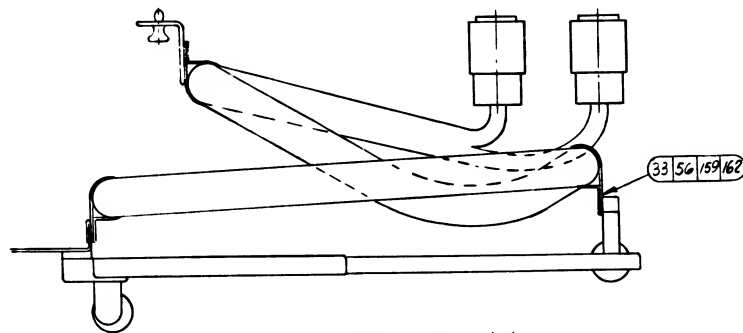
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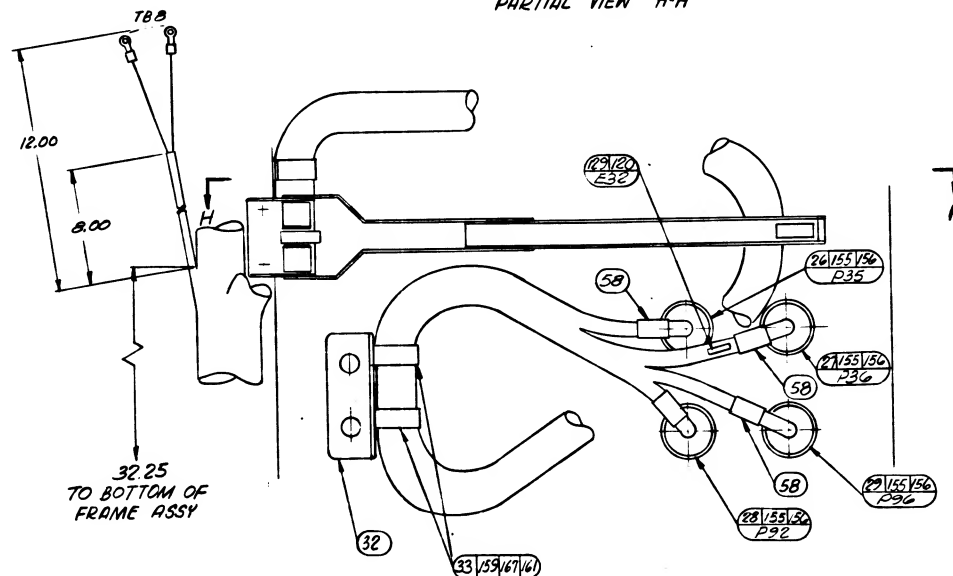
PARTIAL VIEW G-G



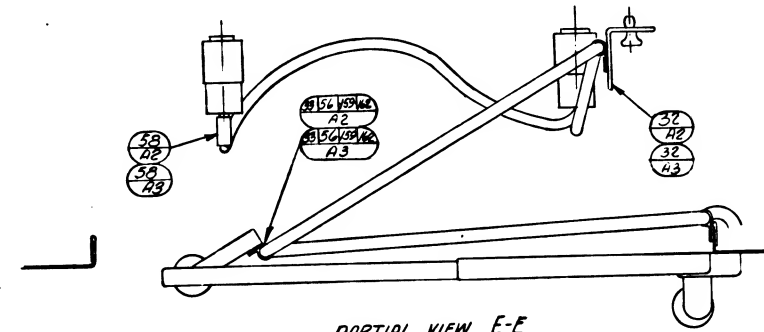
DETAIL G
SCALE 1:2



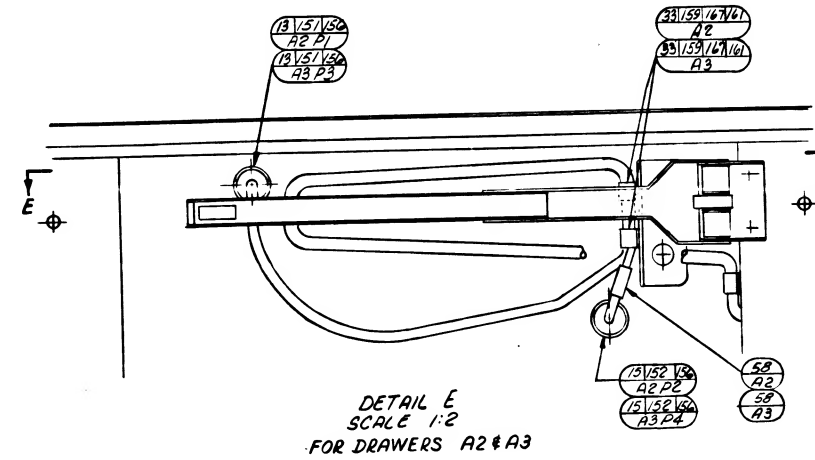
PARTIAL VIEW H-H



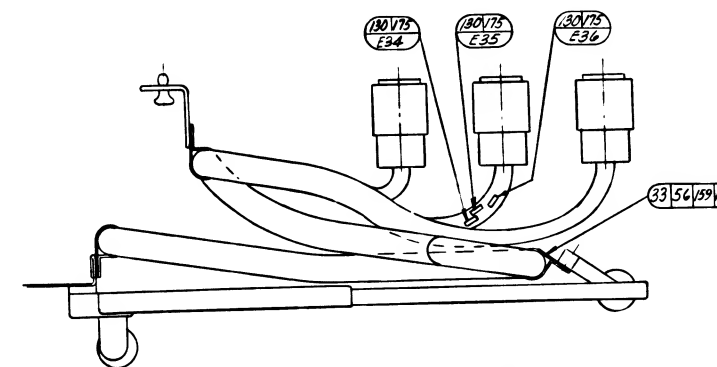
DETAIL H
SCALE 1:2



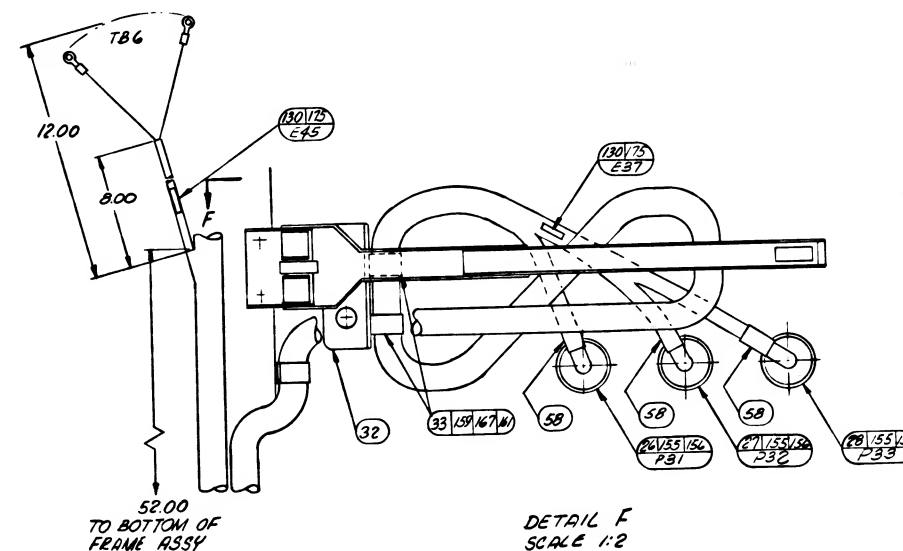
PARTIAL VIEW E-E



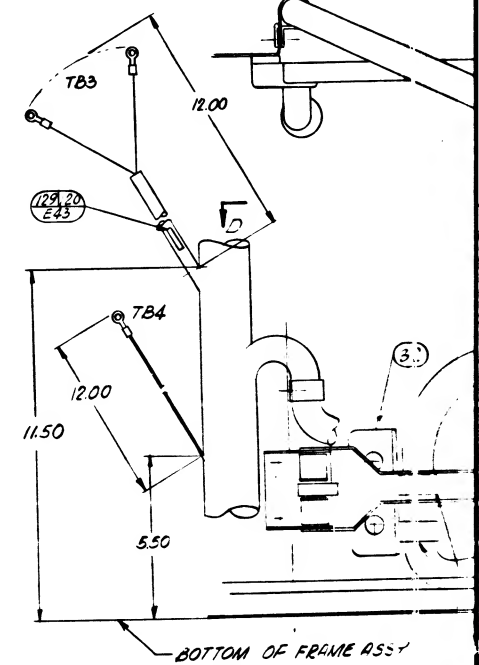
DETAIL E
SCALE 1:2
FOR DRAWERS A2 & A3



PARTIAL VIEW F-F



DETAIL F
SCALE 1:2



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| REVISIONS | | | |
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| SYM | ZONE | DESCRIPTION | DATE |
| (M) | | SEE SHIT 1 FOR REVISION RECORD | |

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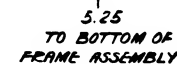
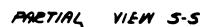
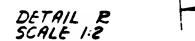
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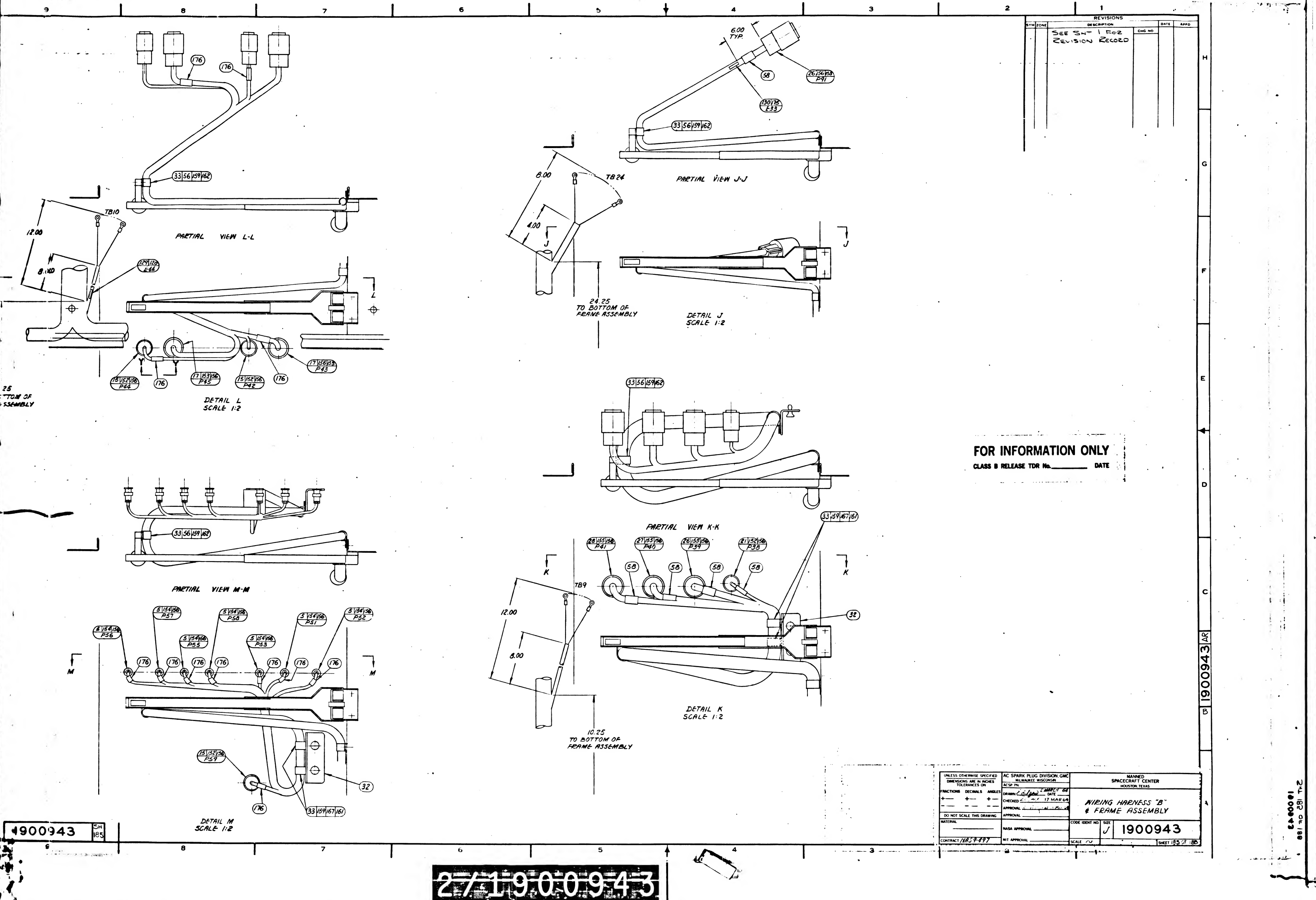
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| REVISIONS | | | |
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| SYMBOL | DESCRIPTION | DATE | APPROVED |
| 1 | SEE SNT 1 FOR REVISION RECORD | | |

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. _____ DATE _____

| | | |
|---|---|---|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN _____ DATE 17 MAR 64 DRAWN BY [Signature] CHECKED BY [Signature] APPROVAL [Signature] DO NOT SCALE THIS DRAWING MATERIAL _____ CONTRACT 11459-497 | MANNED SPACECRAFT CENTER HOUSTON, TEXAS WIRING HARNESS "B" & FRAME ASSEMBLY CODE IDENT NO. _____ SIZE J 1900943 SCALE 1/2 SHEET 15 OF 185 |
|---|---|---|

1900943 SH 165

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TABLE 3

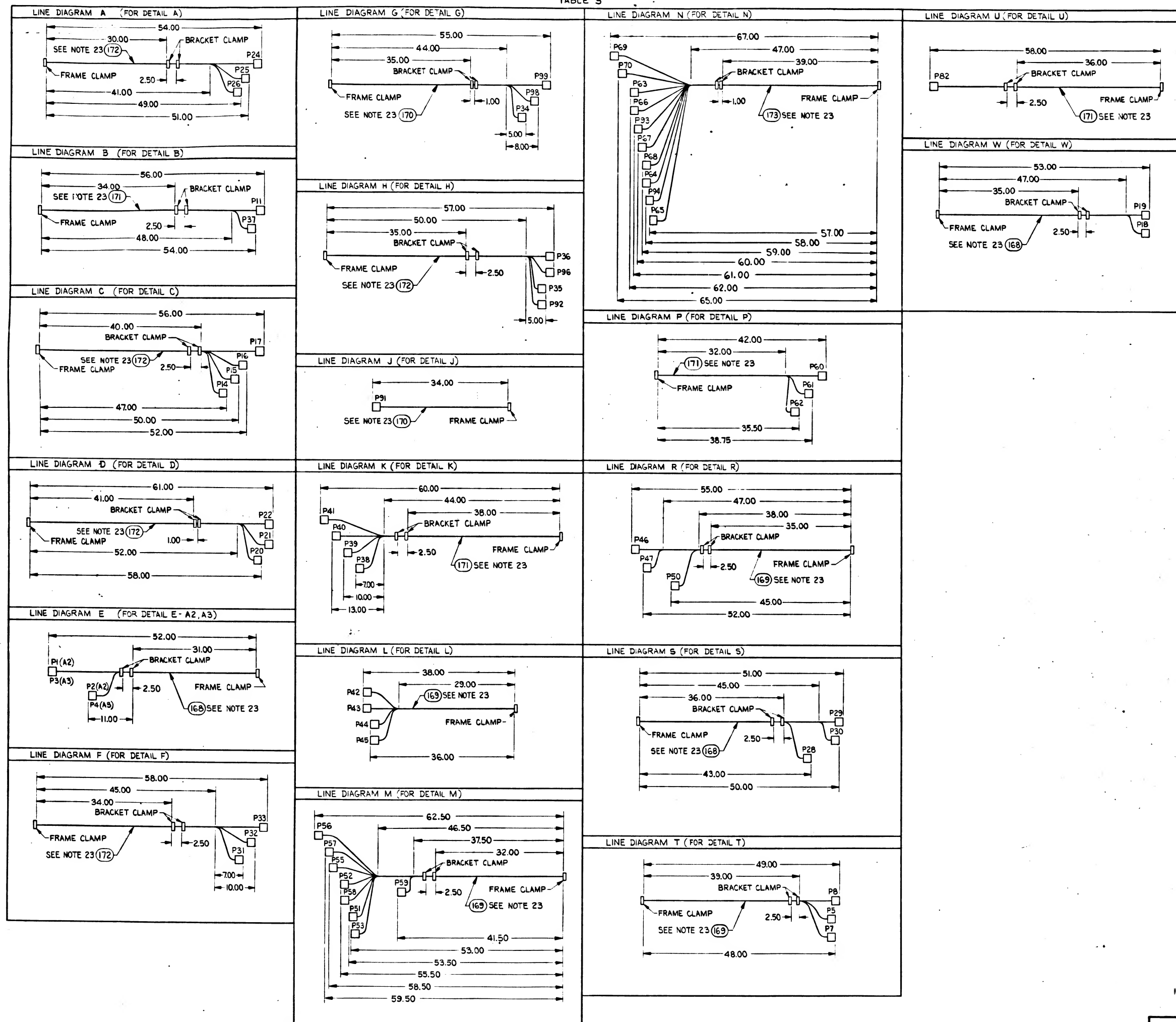


TABLE 2

| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
|---------------------|---------------------------------|
| P1 | A2J1 |
| P2 | A2J3 |
| P3 | A3J1 |
| P4 | A3J3 |
| P5 | A4J1 |
| P6 | A4J3 |
| P7 | A26J6 |
| P8 | A26J7 |
| P9 | A14J2 |
| P10 | A5J1 |
| P11 | A5J2 |
| P12 | A5J3 |
| P13 | A5J4 |
| P14 | A7J1 |
| P15 | A7J2 |
| P16 | A7J3 |
| P17 | A8J1 |
| P18 | A3J1 |
| P19 | A3J2 |
| P20 | A3J3 |
| P21 | A3J4 |
| P22 | A11J2 |
| P23 | A11J3 |
| P24 | A12J1 |
| P25 | A13J1 |
| P26 | A13J2 |
| P27 | A13J3 |
| P28 | A13J4 |
| P29 | A15J1 |
| P30 | A15J2 |
| P31 | A15J3 |
| P32 | A15J4 |
| P33 | A18J2 |
| P34 | A18J3 |
| P35 | A20J28 |
| P36 | A20J29 |
| P37 | A20J30 |
| P38 | A21J1 |
| P39 | A21J2 |
| P40 | A21J3 |
| P41 | A21J4 |
| P42 | A21J5 |
| P43 | A21J6 |
| P44 | A21J7 |
| P45 | A21J8 |
| P46 | A22J1 |
| P47 | A26J1 |
| P48 | A26J2 |
| P49 | A26J3 |
| P50 | A26J4 |
| P51 | A26J5 |
| P52 | A30J4 |
| P53 | A31J1 |
| P54 | A31J2 |
| P55 | A31J3 |
| P56 | A31J4 |
| P57 | A31J5 |
| P58 | A31J6 |
| P59 | A12J3 |

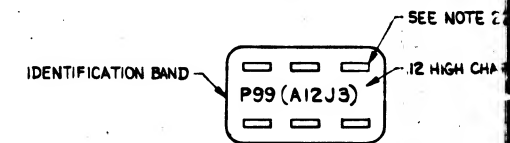


TABLE 1

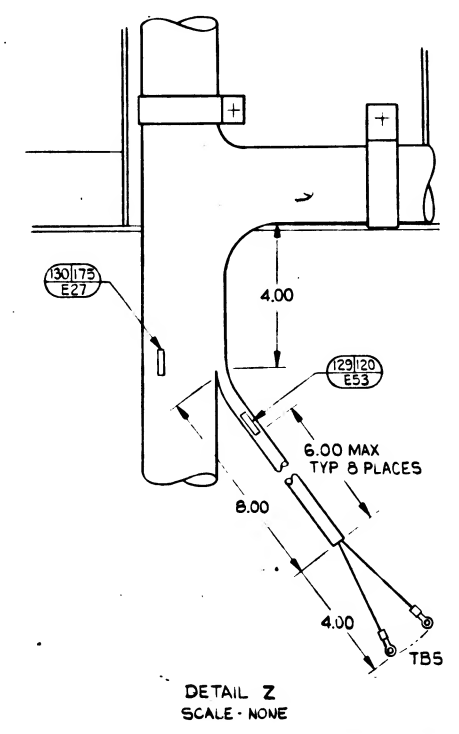
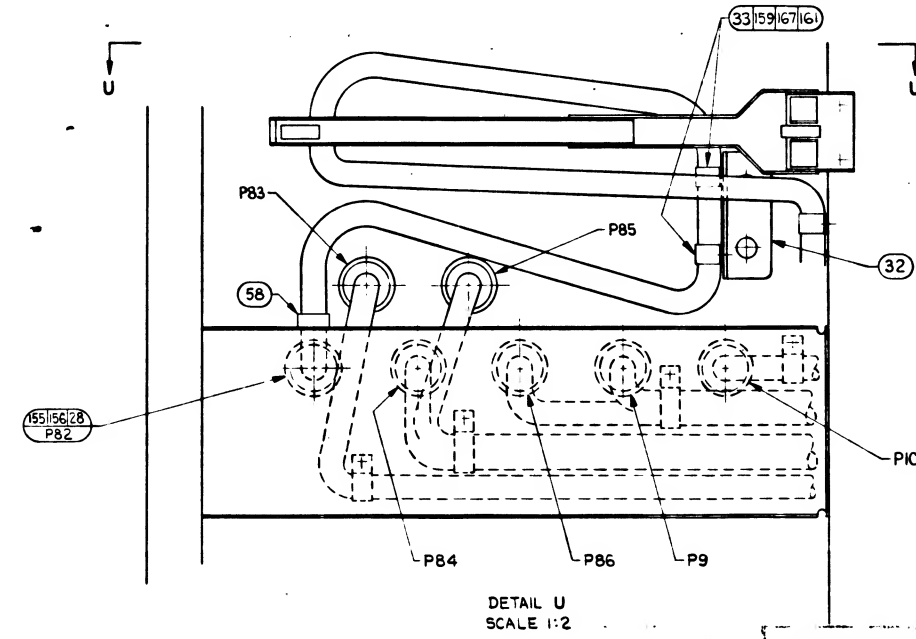
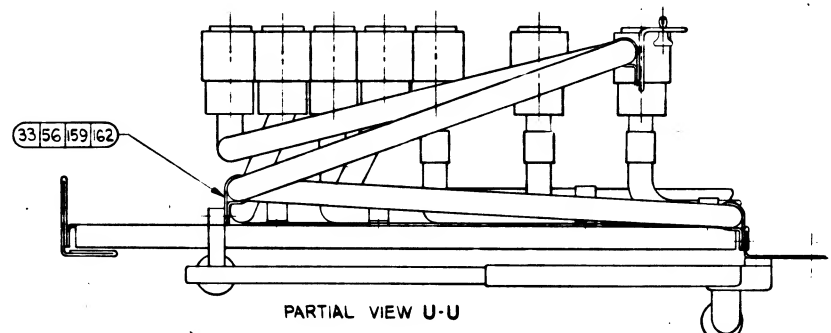
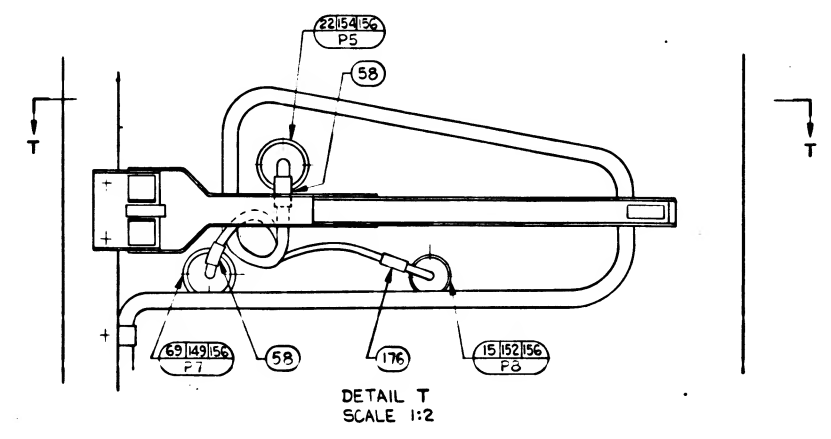
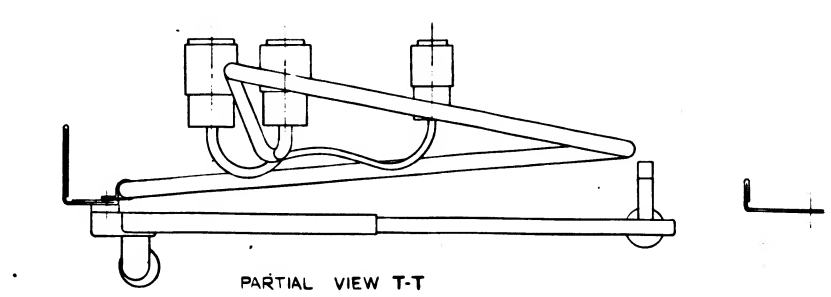
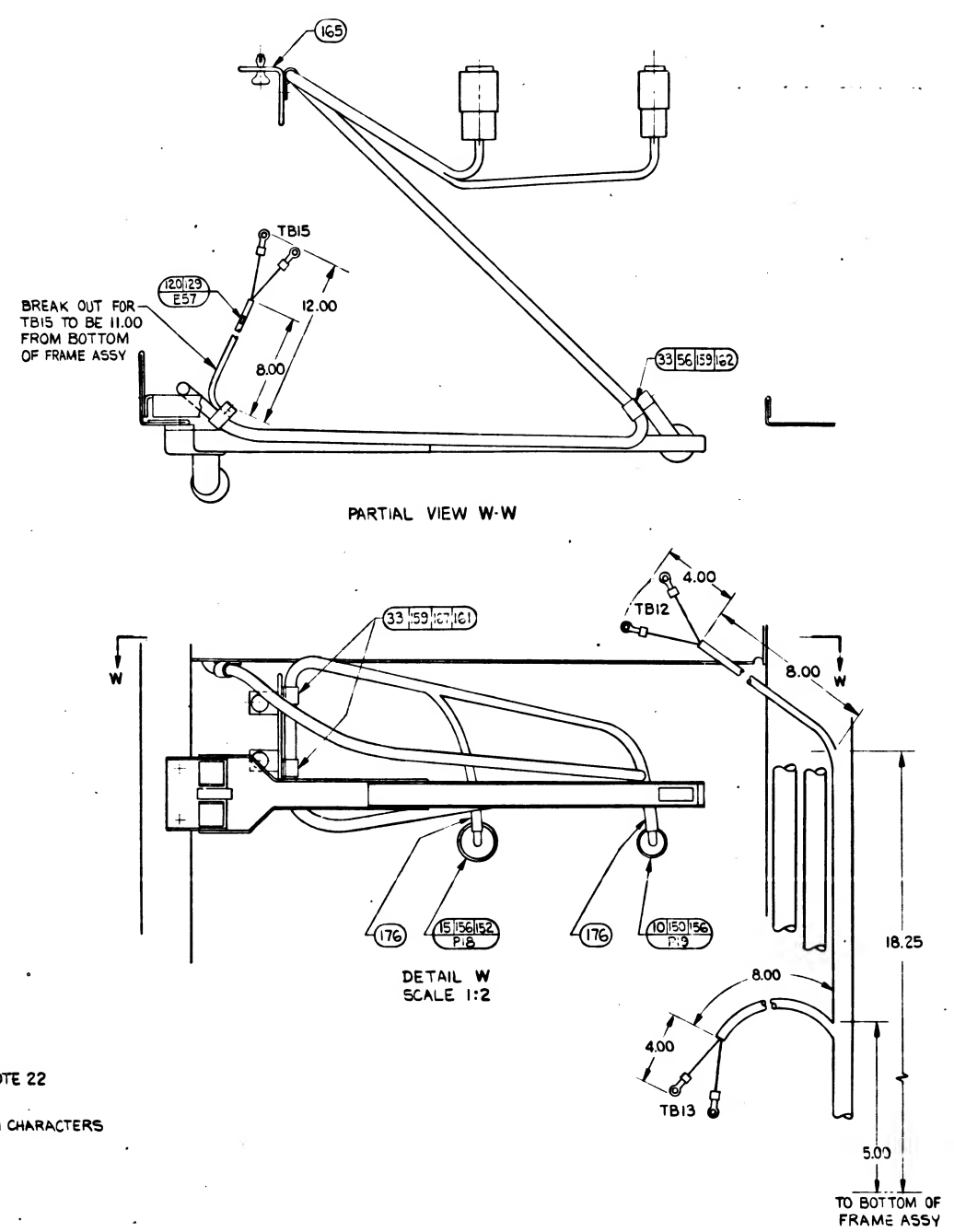
| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
|---------------------|---------------------------------|
| P8 | A4J4 |
| P18 | A6J1 |
| P19 | A6J2 |
| P28 | A10J1 |
| P29 | A10J2 |
| P30 | A10J3 |
| P42 | A16A1J1 |
| P43 | A16A1J2 |
| P44 | A16A2J1 |
| P45 | A16A2J2 |
| P46 | A18J1 |
| P51 | A19J1 |
| P52 | A19J2 |
| P53 | A19J3 |
| P55 | A19J5 |
| P56 | A19J6 |
| P57 | A19J7 |
| P58 | A19J8 |
| P59 | A19J10 |

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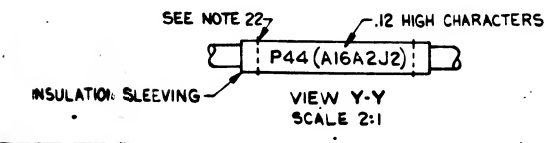
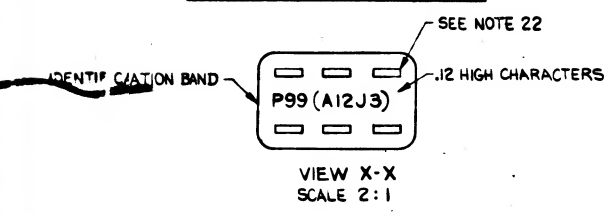
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| TABLE 2 | |
|---------------------|---------------------------------|
| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
| P1 | A2J1 |
| P2 | A2J3 |
| P3 | A3J1 |
| P4 | A3J3 |
| P5 | A4J1 |
| P7 | A4J3 |
| P9 | A26J6 |
| P10 | A26J7 |
| P11 | A14J2 |
| P14 | A5J1 |
| P15 | A5J2 |
| P16 | A5J3 |
| P17 | A5J4 |
| P20 | A7J1 |
| P21 | A7J2 |
| P22 | A7J3 |
| P23 | A8J1 |
| P24 | A8J2 |
| P25 | A9J2 |
| P26 | A9J3 |
| P31 | A11J1 |
| P32 | A11J2 |
| P33 | A11J3 |
| P34 | A12J1 |
| P35 | A13J1 |
| P36 | A13J2 |
| P37 | A14J1 |
| P38 | A15J1 |
| P39 | A15J2 |
| P40 | A15J3 |
| P41 | A15J4 |
| P47 | A18J2 |
| P50 | A18J5 |
| P60 | A20J28 |
| P61 | A20J29 |
| P62 | A20J30 |
| P63 | A21J1 |
| P64 | A21J2 |
| P65 | A21J3 |
| P66 | A21J4 |
| P67 | A21J5 |
| P68 | A21J6 |
| P69 | A21J7 |
| P70 | A21J8 |
| P71 | A22J1 |
| P82 | A26J1 |
| P83 | A26J2 |
| P84 | A26J3 |
| P85 | A26J4 |
| P86 | A26J5 |
| P90 | A30J4 |
| P91 | A31J1 |
| P92 | A31J3 |
| P93 | A21J9 |
| P94 | A21J10 |
| P96 | A13J4 |
| P98 | A12J2 |
| P99 | A12J3 |



| TABLE 1 | |
|---------------------|---------------------------------|
| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
| P8 | A4J4 |
| P18 | A6J1 |
| P19 | A6J2 |
| P28 | A10J1 |
| P29 | A10J2 |
| P30 | A10J3 |
| P42 | A16A1J1 |
| P43 | A16A1J2 |
| P44 | A16A2J1 |
| P45 | A16A2J2 |
| P46 | A18J1 |
| P51 | A19J1 |
| P52 | A19J2 |
| P53 | A19J3 |
| P55 | A19J5 |
| P56 | A19J6 |
| P57 | A19J7 |
| P58 | A19J8 |
| P59 | A19J10 |



| REVISIONS | | | |
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| SYMBOL | DESCRIPTION | CHG NO | DATE |
| 1 | SEE SHT 1 FOR REVISION RECORD | | |

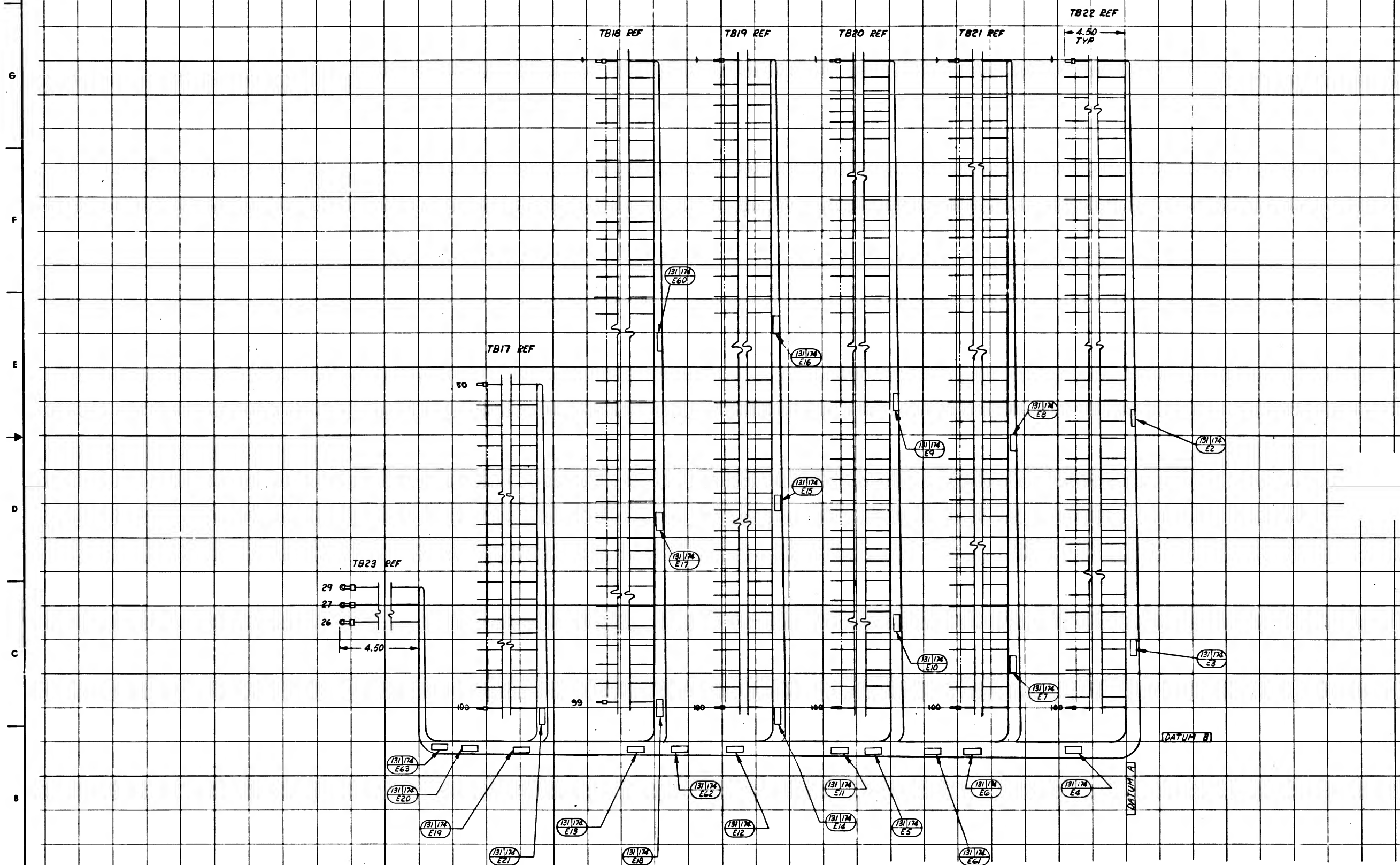
FOR INFORMATION ONLY
CLASS B RELEASE TDR No. _____ DATE _____

| | | | |
|---|----------------|---|----------------|
| AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN | | MANHATTAN SPACECRAFT CENTER HOUSTON TEXAS | |
| DATE 17 MAR 64 | DATE 17 MAR 64 | DATE 17 MAR 64 | DATE 17 MAR 64 |
| CHECKED | CHECKED | CHECKED | CHECKED |
| APPROVAL | APPROVAL | APPROVAL | APPROVAL |
| NASA APPROVAL | | CODE IDENT NO | |
| MIT APPROVAL | | J 1900943 | |
| CONTRACT NAS 3-497 | | SCALE | |
| | | SHEET 186 OF 186 | |

1900943 SH 186

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DETAIL X

| | | | | | |
|---|--|---|--|--|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP P/N: <u>1-23-64</u> | | MANAGED SPACECRAFT CENTER HOUSTON TEXAS | |
| FRACTIONS DECIMALS ANGLES + - + - ' " ' " | | DRAWN BY: <u>W. J. H.</u> DATE: <u>17 MAR 64</u> CHECKED: <u>W. J. H.</u> APPROVAL: <u>W. J. H.</u> | | WIRING HARNESS "B" & FRAME ASSEMBLY | |
| DO NOT SCALE THIS DRAWING MATERIAL: | | APPROVAL: _____ NISA APPROVAL: _____ INT APPROVAL: _____ | | | |
| NEXT ASSY _____ USED ON _____ | | CONTRACT: <u>10554-697</u> | | CODE IDENT NO. <u>E</u> SIZE <u>1900943</u> | |
| APPLICATION _____ | | SCALE: <u>FULL</u> | | SHEET <u>12</u> OF <u>12</u> | |

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LOCATE ITEM 58 IN APPROXIMATE
POSITION AS SHOWN.

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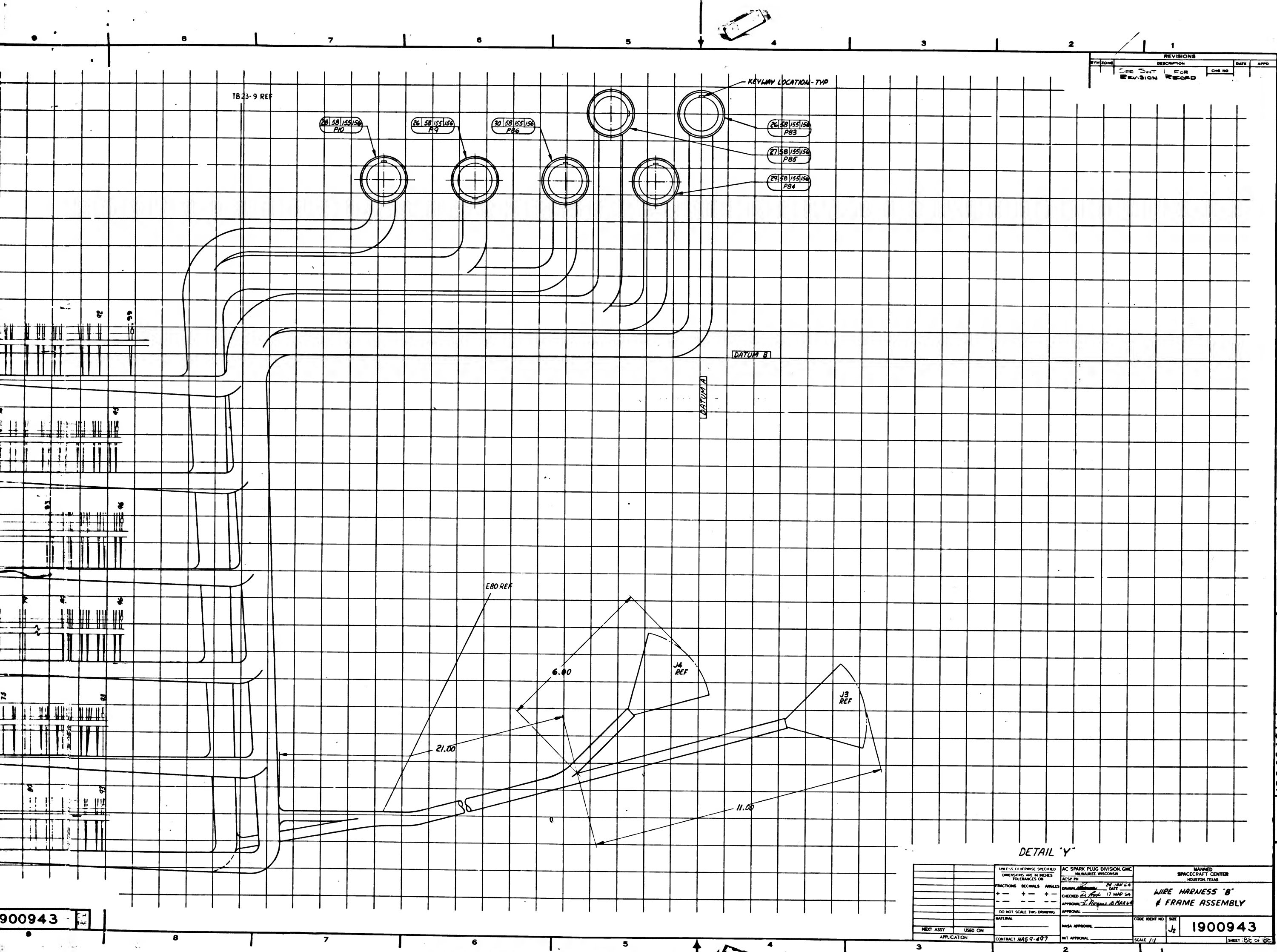
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TB18
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| REVISIONS | | | |
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| SYMBOL | DESCRIPTION | DATE | APPRO |
| 1 | SEE DWT FOR REVISION RECORD | | |

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|---|----------|--|-----------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GAC MILWAUKEE, WISCONSIN | |
| FRACTIONS | DECIMALS | ANGLES | DATE |
| + | + | + | 17 MAR 64 |
| - | - | - | |
| DO NOT SCALE THIS DRAWING | | APPROVAL | |
| MATERIAL | | NASA APPROVAL | |
| NEXT ASSY USED ON APPLICATION | | WY APPROVAL | |
| CONTRACT NAS 9-497 | | SCALE 1/1 | |
| CODE IDENT NO. | | SIZE | |
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| 1900943 | | SHEET 155 OF 155 | |

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| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|-------------|--------------------------------------|-----------|--------------------------------------|-----------|----------|-----------|----------|
| SYN | DESCRIPTION | SYN | DESCRIPTION | DATE | APPROVAL | DATE | APPROVAL |
| A | CHANGE IN ACCORDANCE WITH CM 1900064 | A | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| B | CHANGE IN ACCORDANCE WITH CM 1900064 | B | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| C | CHANGE IN ACCORDANCE WITH CM 1900064 | C | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| D | CHANGE IN ACCORDANCE WITH CM 1900064 | D | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| E | CHANGE IN ACCORDANCE WITH CM 1900064 | E | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| F | CHANGE IN ACCORDANCE WITH CM 1900064 | F | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| G | CHANGE IN ACCORDANCE WITH CM 1900064 | G | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| H | CHANGE IN ACCORDANCE WITH CM 1900064 | H | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| J | CHANGE IN ACCORDANCE WITH CM 1900064 | J | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |
| K | CHANGE IN ACCORDANCE WITH CM 1900064 | K | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | 24 JAN 64 | JJJ |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05634 DATE 11/7/64

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

SPACECRAFT CENTER HOUSTON, TEXAS

WIRING HARNESS B & FRAME ASSY

CODE IDENT NO. SIZE A 1900943 REV AV

NASA APPROVAL 1900943

MIT APPROVAL 1900943

CONTRACT NAS-59-497

SHEET 1 OF 125

| REVISIONS | | DATE | | APPROVAL | |
|-----------|--------------------------------------|-----------|----------|----------|--------------------------------------|
| SYN | DESCRIPTION | DATE | APPROVAL | SYN | DESCRIPTION |
| L | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | L | CHANGE IN ACCORDANCE WITH CM 1900064 |
| M | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | M | CHANGE IN ACCORDANCE WITH CM 1900064 |
| N | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | N | CHANGE IN ACCORDANCE WITH CM 1900064 |
| P | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | P | CHANGE IN ACCORDANCE WITH CM 1900064 |
| R | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | R | CHANGE IN ACCORDANCE WITH CM 1900064 |
| S | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | S | CHANGE IN ACCORDANCE WITH CM 1900064 |
| T | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | T | CHANGE IN ACCORDANCE WITH CM 1900064 |
| U | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | U | CHANGE IN ACCORDANCE WITH CM 1900064 |
| V | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | V | CHANGE IN ACCORDANCE WITH CM 1900064 |
| W | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | W | CHANGE IN ACCORDANCE WITH CM 1900064 |
| Y | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | Y | CHANGE IN ACCORDANCE WITH CM 1900064 |
| Z | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | Z | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AA | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AA | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AB | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AB | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AC | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AC | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AD | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AD | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AE | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AE | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AF | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AF | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AG | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AG | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AH | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AH | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AI | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AI | CHANGE IN ACCORDANCE WITH CM 1900064 |

NASA DRAWING NO. 1900943 SHEET 1A OF 125

SPACECRAFT CENTER HOUSTON, TEXAS

REVISION AR

| REVISIONS | | DATE | | APPROVAL | |
|-----------|--------------------------------------|-----------|----------|----------|--------------------------------------|
| SYN | DESCRIPTION | DATE | APPROVAL | SYN | DESCRIPTION |
| AK | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AK | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AL | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AL | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AM | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AM | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AN | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AN | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AO | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AO | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AP | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AP | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AR | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AR | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AS | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AS | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AT | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AT | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AU | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AU | CHANGE IN ACCORDANCE WITH CM 1900064 |
| AV | CHANGE IN ACCORDANCE WITH CM 1900064 | 24 JAN 64 | JJJ | AV | CHANGE IN ACCORDANCE WITH CM 1900064 |

NASA DRAWING NO. 1900943 SHEET 1B OF 125

SPACECRAFT CENTER HOUSTON, TEXAS

REVISION AV

| REVISION STATUS OF SHEETS | | DATE | | APPROVAL | |
|---------------------------|--------------------------------|-----------|----------|----------|--------------------------------|
| SYN | DESCRIPTION | DATE | APPROVAL | SYN | DESCRIPTION |
| 41 | AR 77 AR 113 AR 149 AR 185 AR | 24 JAN 64 | JJJ | 41 | AR 77 AR 113 AR 149 AR 185 AR |
| 42 | AR 78 AR 114 AR 150 AR 186 AR | 24 JAN 64 | JJJ | 42 | AR 78 AR 114 AR 150 AR 186 AR |
| 43 | AR 79 AR 115 AR 151 AR 187 AR | 24 JAN 64 | JJJ | 43 | AR 79 AR 115 AR 151 AR 187 AR |
| 44 | AR 80 AR 116 AR 152 AR 188 AR | 24 JAN 64 | JJJ | 44 | AR 80 AR 116 AR 152 AR 188 AR |
| 45 | AR 81 AR 117 AR 153 AR 189 AR | 24 JAN 64 | JJJ | 45 | AR 81 AR 117 AR 153 AR 189 AR |
| 46 | AR 82 AR 118 AR 154 AR 190 AR | 24 JAN 64 | JJJ | 46 | AR 82 AR 118 AR 154 AR 190 AR |
| 47 | AR 83 AR 119 AR 155 AR 191 AR | 24 JAN 64 | JJJ | 47 | AR 83 AR 119 AR 155 AR 191 AR |
| 48 | AR 84 AR 120 AR 156 AR 192 AR | 24 JAN 64 | JJJ | 48 | AR 84 AR 120 AR 156 AR 192 AR |
| 49 | AR 85 AR 121 AR 157 AR 193 AR | 24 JAN 64 | JJJ | 49 | AR 85 AR 121 AR 157 AR 193 AR |
| 50 | AR 86 AR 122 AR 158 AR 194 AR | 24 JAN 64 | JJJ | 50 | AR 86 AR 122 AR 158 AR 194 AR |
| 51 | AR 87 AR 123 AR 159 AR 195 AR | 24 JAN 64 | JJJ | 51 | AR 87 AR 123 AR 159 AR 195 AR |
| 52 | AR 88 AR 124 AR 160 AR 196 AR | 24 JAN 64 | JJJ | 52 | AR 88 AR 124 AR 160 AR 196 AR |
| 53 | AR 89 AR 125 AR 161 AR 197 AR | 24 JAN 64 | JJJ | 53 | AR 89 AR 125 AR 161 AR 197 AR |
| 54 | AR 90 AR 126 AR 162 AR 198 AR | 24 JAN 64 | JJJ | 54 | AR 90 AR 126 AR 162 AR 198 AR |
| 55 | AR 91 AR 127 AR 163 AR 199 AR | 24 JAN 64 | JJJ | 55 | AR 91 AR 127 AR 163 AR 199 AR |
| 56 | AR 92 AR 128 AR 164 AR 200 AR | 24 JAN 64 | JJJ | 56 | AR 92 AR 128 AR 164 AR 200 AR |
| 57 | AR 93 AR 129 AR 165 AR 201 AR | 24 JAN 64 | JJJ | 57 | AR 93 AR 129 AR 165 AR 201 AR |
| 58 | AR 94 AR 130 AR 166 AR 202 AR | 24 JAN 64 | JJJ | 58 | AR 94 AR 130 AR 166 AR 202 AR |
| 59 | AR 95 AR 131 AR 167 AR 203 AR | 24 JAN 64 | JJJ | 59 | AR 95 AR 131 AR 167 AR 203 AR |
| 60 | AR 96 AR 132 AR 168 AR 204 AR | 24 JAN 64 | JJJ | 60 | AR 96 AR 132 AR 168 AR 204 AR |
| 61 | AR 97 AR 133 AR 169 AR 205 AR | 24 JAN 64 | JJJ | 61 | AR 97 AR 133 AR 169 AR 205 AR |
| 62 | AR 98 AR 134 AR 170 AR 206 AR | 24 JAN 64 | JJJ | 62 | AR 98 AR 134 AR 170 AR 206 AR |
| 63 | AR 99 AR 135 AR 171 AR 207 AR | 24 JAN 64 | JJJ | 63 | AR 99 AR 135 AR 171 AR 207 AR |
| 64 | AR 100 AR 136 AR 172 AR 208 AR | 24 JAN 64 | JJJ | 64 | AR 100 AR 136 AR 172 AR 208 AR |
| 65 | AR 101 AR 137 AR 173 AR 209 AR | 24 JAN 64 | JJJ | 65 | AR 101 AR 137 AR 173 AR 209 AR |
| 66 | AR 102 AR 138 AR 174 AR 210 AR | 24 JAN 64 | JJJ | 66 | AR 102 AR 138 AR 174 AR 210 AR |
| 67 | AR 103 AR 139 AR 175 AR 211 AR | 24 JAN 64 | JJJ | 67 | AR 103 AR 139 AR 175 AR 211 AR |
| 68 | AR 104 AR 140 AR 176 AR 212 AR | 24 JAN 64 | JJJ | 68 | AR 104 AR 140 AR 176 AR 212 AR |
| 69 | AR 105 AR 141 AR 177 AR 213 AR | 24 JAN 64 | JJJ | 69 | AR 105 AR 141 AR 177 AR 213 AR |
| 70 | AR 106 AR 142 AR 178 AR 214 AR | 24 JAN 64 | JJJ | 70 | AR 106 AR 142 AR 178 AR 214 AR |
| 71 | AR 107 AR 143 AR 179 AR 215 AR | 24 JAN 64 | JJJ | 71 | AR 107 AR 143 AR 179 AR 215 AR |
| 72 | AR 108 AR 144 AR 180 AR 216 AR | 24 JAN 64 | JJJ | 72 | AR 108 AR 144 AR 180 AR 216 AR |
| 73 | AR 109 AR 145 AR 181 AR 217 AR | 24 JAN 64 | JJJ | 73 | AR 109 AR 145 AR 181 AR 217 AR |
| 74 | AR 110 AR 146 AR 182 AR 218 AR | 24 JAN 64 | JJJ | 74 | AR 110 AR 146 AR 182 AR 218 AR |
| 75 | AR 111 AR 147 AR 183 AR 219 AR | 24 JAN 64 | JJJ | 75 | AR 111 AR 147 AR 183 AR 219 AR |
| 76 | AR 112 AR 148 AR 184 AR 220 AR | 24 JAN 64 | JJJ | 76 | AR 112 AR 148 AR 184 AR 220 AR |

NASA DRAWING NO. 1900943 SHEET 2 OF 125

SPACECRAFT CENTER HOUSTON, TEXAS

REVISION AV

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---|---|---------|---------|----------------|---------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION PER ND1002019. | | | | | | |
| 5 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 6 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 1.2 INCHES. | | | | | | |
| 7 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 8 | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 9 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| 10 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 11 | LACE HARNESS USING ITEM 180 | | | | | | |
| 12 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER ND1002019 (ES-267). | | | | | | |
| 13 | SOLDER PER MIL-STD-440 USING ITEMS 181 AND 182 | | | | | | |
| 14 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE - NONE | REV LTR | AR | SHEET 3 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---|---|---------|---------|----------------|---------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 15 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | | | | | |
| 16 | BREAKOUTS OF INDIVIDUAL OR GROUPS OF CONDUCTORS ARE MINIMUM CONFIGURATION. | | | | | | |
| 17 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 18 | SELECT AS REQUIRED. | | | | | | |
| 19 | FILL THE SPACE BETWEEN WIRE AND GROMMET USING A SUFFICIENT AMOUNT OF ITEM 156 TO MAKE ASSEMBLY SECURE IN THE CLAMP PRIOR TO THE CLAMP HALVES SEATING. SEE TYPICAL VIEW AD-AD SHOWING ASSEMBLY OF GROMMET AND ITEM 156. | | | | | | |
| 20 | THE FOLLOWING CONDUCTORS ARE TO BE TWISTED TOGETHER IN ACCORDANCE WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIA. B36K, B36L, B36R, B36Y | | | | | | |
| 21 | DELETED | | | | | | |
| 22 | MARK ITEMS 58 AND 176 PER ND1002019, COLOR BLACK, HEIGHT AS SHOWN IN VIEWS X-X AND Y-Y. MARK WITH HARNESS PLUG DESIGNATION AND MATING DRAWER RECEPTACLE SYMBOL. FOR ITEM 58 SEE TABLE 2 AND VIEW X-X. FOR ITEM 176 SEE TABLE 3 AND VIEW Y-Y. SEE NOTE 24 FOR FASTENING. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE - NONE | REV LTR | AR | SHEET 4 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|---------|---|--|---------|---------|----------------|---------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 23 | TUBING SHALL EXTEND INTO FRAME CLAMP AND 1 INCH BEYOND AT ONE END. THE OTHER END SHALL TERMINATE AT THE FIRST SEPARATION IN THE BUNDLE. IF ONLY A SINGLE CABLE EXISTS, TUBING SHALL EXTEND INTO FRAME CLAMP AND 1 INCH BEYOND AT ONE END. THE OTHER END SHALL TERMINATE 3 INCHES FROM THE STRAIN RELIEF CLAMP OF THE CONNECTOR. | | | | | | |
| 24 | FASTEN ITEMS 58 AND 176 WITH ITEM 180. WRAP BAND TO CONFORM TO THE HARNESS CONFIGURATION | | | | | | |
| 25 | TUBING SHALL EXTEND WITHIN 1 INCH OF BREAKOUT ON ONE END AND TERMINATE 3 INCHES FROM THE STRAIN RELIEF CLAMP OF THE CONNECTOR AT THE OTHER END. | | | | | | |
| 26 | MARK BAND WITH AC SPARK PLUG ABBREVIATION ACSK AND IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). SERIALIZE PER ND1002023, CHARACTERS .12 HIGH, COLOR BLACK PER ND1002019. SEE NOTE 24 FOR FASTENING. | | | | | | |
| | | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. | | | | | |
| | | A - FROM END SHIELD | | | | | |
| | | B - TO END SHIELD | | | | | |
| | | E - GRAY | | | | | |
| | | K - WHITE WITH LETTER K, OR WHITE WITH BLACK TRACER | | | | | |
| | | L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER | | | | | |
| | | R - WHITE WITH LETTER R, OR WHITE WITH RED TRACER | | | | | |
| | | W - WHITE OR WHITE WITH LETTER W | | | | | |
| | | X - COAX OUTER CONDUCTOR | | | | | |
| | | Y - WHITE WITH LETTER Y, OR WHITE WITH YELLOW TRACER | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE - NONE | REV LTR | AR | SHEET 5 OF 188 | | |

| GMI | | WIRING HARNESS B | | AR | | 1900943 | |
|--|---------------|---|---------|--------------|----------------|------------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | |
| | | WIRE OR CABLE | | STRIP JACKET | | CUT SHIELD | |
| UNDER 1 INCH | | +.06-.00 | | +.03-.00 | | +.06-.06 | |
| 1 INCH TO 6 INCHES | | +.50-.00 | | +.06-.00 | | +.25-.25 | |
| 6 INCHES TO 6 FEET | | +1.00-.00 | | +.50-.50 | | +.50-.50 | |
| OVER 6 FEET | | +2.00-.00 | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | |
| | | SCALE - NONE | REV LTR | AR | SHEET 6 OF 188 | | |

| | | | | | | | | | | | | | | |
|--|---------------|-------------------|---|--|---------|--|---------------|---------|------------|---------|----|----------------|--|--|
| GMI | | WIRING HARNESS B | | AR | 1900943 | | | | | | | | | |
| PENNANT | | LIST OF MATERIALS | | | | | | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | | | | | | | | |
| | 1 | 1 | 1900351-011 | HARNESS FRAME MECHANICAL ASSY. | | | | | | | | | | |
| | 2 | 1 | 1900943-002 | WIRE, ND1002181 TYPE 2 CLASS 1 T2 16AWG WHT. WITH LETTER L, WHT. WITH LETTER R 50 FT. TOTAL LENGTH | | | | | | | | | | |
| | 3 | | | DELETED (1900943-003) | | | | | | | | | | |
| | 4 | 1 | MS3106A18-1P | (1897084-010) CONNECTOR PLUG ELECTRICAL | | | | | | | | | | |
| 17 | 5 | 7 | 1015922-001 | CONNECTOR PLUG ELECTRICAL | | | | | | | | | | |
| | 7 | 1 | 1900943-007 | WIRE, ND1002181 TYPE 1 CLASS 4 22AWG WHT. WITH WHT. JACKET 312 FT. TOTAL LENGTH | | | | | | | | | | |
| | 8 | 1 | 1900943-008 | WIRE, ND1002181 TYPE 2 CLASS 1 T2 22AWG WHT. WITH LETTER L, WHT. WITH LETTER R 60 FT. TOTAL LENGTH | | | | | | | | | | |
| | 9 | | | DELETED (1900943-009) | | | | | | | | | | |
| | 10 | 1 | MS3126F12-10P | (1897038-100) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| | 11 | 1 | MS3126F12-10S | (1897039-100) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| | 12 | 1 | 1900943-012 | WIRE, ND1002181 TYPE 2 CLASS 1 T2 24AWG WHT. WITH LETTER L, WHT. WITH LETTER R 60 FT. TOTAL LENGTH | | | | | | | | | | |
| | 13 | 2 | MS3126F14-19S | (1897040-190) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| | 15 | 10 | MS3126F16-8S | (1897042-080) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| | 16 | 1 | 1900943-016 | WIRE, ND1002181 TYPE 1 CLASS 1 20AWG WHT. 500 FT. TOTAL LENGTH | | | | | | | | | | |
| | | | <table><tr><td>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</td><td>SIZE A</td><td>1900943</td></tr><tr><td>SCALE-NONE</td><td>REV LTR</td><td>AR</td></tr><tr><td colspan="3">SHEET 7 OF 188</td></tr></table> | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | SCALE-NONE | REV LTR | AR | SHEET 7 OF 188 | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | | | | | | | | | | |
| SCALE-NONE | REV LTR | AR | | | | | | | | | | | | |
| SHEET 7 OF 188 | | | | | | | | | | | | | | |

| | | | | | |
|---------|------|-------------------|---------------------------------|---|---------|
| GMI | | WIRING HARNESS B | | AR | 1900943 |
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | |
| | 17 | 2 | MS3126F20-16P | (1897043-160) CONNECTOR PLUG, ELECTRICAL | |
| | 18 | 1 | MS3126F20-41P | (1897043-410) CONNECTOR PLUG, ELECTRICAL | |
| | 19 | 1 | MS3126F20-41S | (1897044-410) CONNECTOR PLUG, ELECTRICAL | |
| | 20 | 1 | MS3126F12-10SW | (1897039-101) CONNECTOR PLUG, ELECTRICAL | |
| | 21 | 1 | MS3126F16-8SW | (1897042-081) CONNECTOR PLUG, ELECTRICAL | |
| | 22 | 2 | MS3126F22-55P | (1897045-550) CONNECTOR PLUG, ELECTRICAL | |
| | 23 | 1 | MS3126F22-55PW | (1897045-551) CONNECTOR PLUG, ELECTRICAL | |
| | 24 | 1 | MS3126F22-55PX | (1897045-552) CONNECTOR PLUG, ELECTRICAL | |
| | 26 | 10 | MS3126F24-61S | (1897048-610) CONNECTOR PLUG, ELECTRICAL | |
| | 27 | 8 | MS3126F24-61SW | (1897048-611) CONNECTOR PLUG, ELECTRICAL | |
| | 28 | 8 | MS3126F24-61SX | (1897048-612) CONNECTOR PLUG, ELECTRICAL | |
| | 29 | 2 | MS3126F24-61SY | (1897048-613) CONNECTOR PLUG, ELECTRICAL | |
| | 30 | 2 | MS3126F24-61SZ | (1897048-614) CONNECTOR PLUG, ELECTRICAL | |
| | 32 | 13 | 1900448-011 | CABLE CLAMP BRACKET ASSY | |
| 18 | 33 | 107 | MS21919-WDG2 THRU MS21919-WDG32 | (1897073-202 THRU 1897073-224) CLAMP-LOOP TYPE, CUSHIONED | |
| | 34 | | DELETED | | |
| | 35 | | DELETED | | |
| | 36 | | DELETED | | |

| | | |
|--|---------------|----------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| SCALE-NONE | REV LTR | AR |
| | | SHEET 8 OF 188 |

| | | | | | |
|---------|------|-------------------|--|--|---------|
| GMI | | WIRING HARNESS B | | AR | 1900943 |
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | |
| | 37 | | | DELETED | |
| 17 | 38 | 22 | 1006783- 44 | SCREW, BUTTON HEAD | |
| | 39 | | | DELETED (1897082-113) | |
| | 40 | 1 | 1900943-040 | WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG WHT. 100 FT. TOTAL LENGTH | |
| | 41 | 1 | 1900943-041 | WIRE, ND1002181 TYPE 1, CLASS 1, 22AWG WHT. 3012 FT. TOTAL LENGTH | |
| | 42 | 1 | 1900943-042 | WIRE, ND1002181 TYPE 1, CLASS 1, 24AWG WHT. 10+101 FT. TOTAL LENGTH | |
| | 44 | 1 | 1900943-044 | WIRE, ND1002181 TYPE 2, CLASS 4, 16AWG WHT. JACKET, WHT/BLU, WHT/RED 100 FT. TOTAL LENGTH | |
| | 45 | 1 | 1900943-045 | WIRE, ND1002181 TYPE 2, CLASS 4, 20AWG WHT. JACKET, WHT/BLU, WHT/RED 400 FT. TOTAL LENGTH | |
| | 46 | 1 | 1900943-046 | WIRE, ND1002181 TYPE 2, CLASS 4, 24AWG WHT. JACKET, WHT/BLU, WHT/RED 3013 FT. TOTAL LENGTH | |
| | 47 | 1 | 1900943-047 | WIRE, ND1002181 TYPE 2, CLASS 4, 22AWG WHT. JACKET, WHT/BLU, WHT/RED 500 FT. TOTAL LENGTH | |
| 17 | 48 | 277 | 1000243- 8 | FERRULE, ELEC. COND. | |
| 17 | 49 | 2 | 1000243- 10 | FERRULE, ELEC. COND. | |
| 17 | 50 | 26 | 1000243- 14 | FERRULE, ELEC. COND. | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | | SCALE-NONE | REV LTR | AR |
| | | | SHEET 9 OF 188 | | |

| | | | | | | | | | | | | | | |
|--|---------------|-------------------|----------------|---|---------|--|---------------|---------|--------------|---------|----|-----------------|--|--|
| GMI | | WIRING HARNESS B | | AR | 1900943 | | | | | | | | | |
| PENNANT | | LIST OF MATERIALS | | | | | | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | | | | | | | | |
| 17 | 51 | 12 | 1000243- 23 | FERRULE, ELEC. COND. | | | | | | | | | | |
| 17 | 52 | 277 | 1000242- 8 | FERRULE, ELEC. COND. | | | | | | | | | | |
| 17 | 53 | 4 | 1000242- 11 | FERRULE, ELEC. COND. | | | | | | | | | | |
| 17 | 54 | 26 | 1000242- 12 | FERRULE, ELEC. COND. | | | | | | | | | | |
| 17 | 55 | 12 | 1000242- 18 | FERRULE, ELEC. COND. | | | | | | | | | | |
| | 56 | 50 | MS35338- 81 | LOCKWASHER | | | | | | | | | | |
| | 57 | | | DELETED (1897006-017) | | | | | | | | | | |
| 22 | 58 | 54 | 1016128-011 | BAND, IDENTIFICATION | | | | | | | | | | |
| | 59 | 1 | MS3126F22-55SY | (1897046-553) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| | 65 | 1 | 1900943-065 | COAX-MIL-C-17 RG188/U 1500 FT. TOTAL LENGTH | | | | | | | | | | |
| | 66 | 1 | MS3126F20-16S | (1897044-160) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| | 67 | | | DELETED (1897044-411) | | | | | | | | | | |
| | 68 | 1 | MS3126F10-65 | (1897026-060) CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| 17 | 69 | 4 | 1015907-100 | CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| 17 | 70 | 3 | 1015907-101 | CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| 17 | 71 | 2 | 1015907-102 | CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| 17 | 72 | 1 | 1015907-103 | CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| 17 | 73 | 1 | 1015907-104 | CONNECTOR PLUG, ELECTRICAL | | | | | | | | | | |
| <table><tr><td>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</td><td>SIZE A</td><td>1900943</td></tr><tr><td>SCALE - NONE</td><td>REV LTR</td><td>AR</td></tr><tr><td colspan="3">SHEET 10 OF 188</td></tr></table> | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | SCALE - NONE | REV LTR | AR | SHEET 10 OF 188 | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | | | | | | | | | | | |
| SCALE - NONE | REV LTR | AR | | | | | | | | | | | | |
| SHEET 10 OF 188 | | | | | | | | | | | | | | |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|---|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 77 1 | MS3127E24-61PY (1897055-613) | CONNECTOR, RECEPTACLE | |
| | 78 1 | MS3127E24-61PZ (1897055-614) | CONNECTOR, RECEPTACLE | |
| | 79 1 | MS3127E24-61S (1897056-610) | CONNECTOR, RECEPTACLE | |
| | 80 | | DELETED (1897056-611) | |
| | 81 | | DELETED (1897056-612) | |
| | 82 | | DELETED (1897056-613) | |
| 17 | 83 26 | 1010490-194 | INSULATION-SLEEVING | |
| 17 | 84 347 | 1010490-196 | INSULATION-SLEEVING | |
| 17 | 85 444 | 1010490-198 | INSULATION-SLEEVING | |
| 17 | 86 168 | 1000243- 6 | FERRULE-ELEC. COND. | |
| 17 | 87 168 | 1000242- 5 | FERRULE-ELEC. COND. | |
| | 88 | | DELETED (1015905- 61) | |
| 17 | 89 80 | 1015908- 11 | CONTACT COAX PIN | |
| 17 | 90 80 | 1015908- 31 | BODY COAX OUTER FEMALE | |
| 17 | 91 80 | 1015908- 51 | RING COAX CONNECTOR | |
| | 92 | | DELETED (1010490-202) | |
| | 98 1 | 1900943-098 | WIRE, MD1002181 TYPE 3 CLASS 4 22AWG, WHT/BLU, WHT/RED, WHT/YEL WITH WHT. JACKET 500 FT. TOTAL LENGTH | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 11 OF 188 |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|---|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 99 1 | 1900943-099 | WIRE, MD1002181 TYPE 3 CLASS 4 20AWG, WHT/BLU, WHT/RED, WHT/YEL WITH WHT. JACKET 500 FT. TOTAL LENGTH | |
| 17 | 102 2 | 1000243- 15 | FERRULE, ELEC. | |
| 17 | 103 2 | 1000243- 11 | FERRULE, ELEC. | |
| 17 | 104 2 | 1000242- 16 | FERRULE, ELEC. | |
| 17 | 107 1230 | 1015966-001 | JACK-WIRE TIP (AWG 24-22) | |
| 17 | 108 21 | 1015966-003 | JACK-WIRE TIP (AWG 20) | |
| 17 | 111 19 | 1015902- 3 | TERMINAL LUG-RING TONGUE, CRIMP | |
| | 112 1 | MS3127E22-55S (1897054-550) | CONNECTOR-RECEPTACLE, ELEC. | |
| | 116 | | DELETED (1015864-168) | |
| 17 | 117 17 | 1000243- 3 | FERRULE-ELEC. | |
| 17 | 118 17 | 1000243- 4 | FERRULE-ELEC. | |
| | 119 | | DELETED (1000243- 15) | |
| 17 | 120 58 | 1010490-200 | INSULATION SLEEVING, ELEC. | |
| | 122 1 | MS3127E20-41SW (1897052-411) | CONNECTOR-RECEPTACLE | |
| | 126 1 | MS3127E22-55PX (1897053-552) | CONNECTOR-RECEPTACLE | |
| | 127 1 | MS3127E22-55SW (1897054-551) | CONNECTOR-RECEPTACLE | |
| 17 | 129 37 | 1016006-001 | SPLICE REDUCER | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 12 OF 188 |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|-----------------------|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| 17 | 130 16 | 1016006-002 | SPLICE REDUCER | |
| 17 | 131 25 | 1016006-003 | SPLICE REDUCER | |
| | 132 | | DELETED (1015902-008) | |
| | 133 | | DELETED | |
| | 141 1 | MS3126F24-61PZ (1897047-614) | CONNECTOR-PLUG ELEC. | |
| | 143 1 | MS3127E20-41PW (1897051-411) | CONNECTOR-RECEPTACLE | |
| | 144 1 | MS3127E14-15S (1897116-150) | CONNECTOR-RECEPTACLE | |
| | 145 1 | MS3127E22-55PY (1897053-553) | CONNECTOR-RECEPTACLE | |
| | 146 1 | MS3127E22-55PZ (1897053-554) | CONNECTOR-RECEPTACLE | |
| | 147 1 | MS3127E22-55SX (1897054-552) | CONNECTOR-RECEPTACLE | |
| | 148 1 | MS3127E22-55SY (1897054-553) | CONNECTOR-RECEPTACLE | |
| 17 | 149 2 | 1016282- 10 | GROMMET, CONNECTOR | |
| 17 | 150 3 | 1016282- 12 | GROMMET, CONNECTOR | |
| 17 | 151 2 | 1016282- 14 | GROMMET, CONNECTOR | |
| 17 | 152 12 | 1016282- 16 | GROMMET, CONNECTOR | |
| 17 | 153 5 | 1016282- 20 | GROMMET, CONNECTOR | |
| 17 | 154 22 | 1016282- 22 | GROMMET, CONNECTOR | |
| 17 | 155 31 | 1016282- 24 | GROMMET, CONNECTOR | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 13 OF 188 |

| GMI | | WIRING HARNESS B | | 1900943 |
|---------|----------|---|---|-----------------|
| PENNANT | | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 156 77 | 1901390 | TAPE, FILLER | |
| 17 | 157 19 | 1016281-181 | SOCKET, CONTACT | |
| | 158 5 | MS35234-69 | SCREW, PAN HD, SLOTTED | |
| | 159 108 | 1897006- 19 | WASHER, FLAT | |
| | 160 5 | 1901464-004 | SPACER | |
| | 161 58 | 1896990-011 | NUT, SELF LOCKING | |
| 17 | 162 50 | 1006783-043 | SCREW, BUTTON HD | |
| | 163 2 | 1901464-002 | SPACER | |
| 17 | 164 2 | 1006783-048 | SCREW, BUTTON HD | |
| | 165 2 | 1900448-021 | CABLE CLAMP BRACKET ASSY | |
| 17 | 166 2 | 1016281-180 | PIN, CONTACT | |
| 17 | 167 31 | 1006783-045 | SCREW, BUTTON HD. | |
| | 168 1 | 1900943-100 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - .50 DIA - 12 FT TOTAL LENGTH | |
| | 169 1 | 1900943-101 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - .75 DIA - 13 FT TOTAL LENGTH | |
| | 170 1 | 1900943-102 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - .88 DIA - 7 FT TOTAL LENGTH | |
| | 171 1 | 1900943-103 | TUBING, MIL-I-7444, TYPE III, BLK, FLEX - 1.00 DIA - 16 FT TOTAL LENGTH | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 |
| | | SCALE-NONE | REV LTR | SHEET 14 OF 188 |

| LIST OF MATERIALS | | | |
|-------------------|--------|-----------|---|
| PENNA | NOTE | ITEM QTY | PART NO DESCRIPTION |
| | | 172 1 | 1900943-104 TUBING, MIL-I-7444, TYPE III, BLK, FLEX - 1.25 DIA - 20 FT TOTAL LENGTH |
| | | 173 1 | 1900943-105 TUBING, MIL-I-7444, TYPE III, BLK, FLEX - 1.50 DIA - 55 INCHES TOTAL LENGTH |
| | 17 | 174 25 | 1010490-286 INSULATION SLEEVING |
| | 17 | 175 16 | 1010490-288 INSULATION SLEEVING |
| | 22 | 176 19 | 1015864-462 INSULATION SLEEVING |
| | | 177 | DELETED (1900943-106) |
| | | 178 1 | 1900943-107 WIRE PER NS1002181, TYPE 1, CLASS 1, 8AWG, WHT, 20 FT. TOTAL LENGTH. |
| | 17 | 179 7 | 1016048- 15 TERMINAL LUG |
| | 180 AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2, BLK (ES-2732 NO. 18 AND 24) |
| | 181 AR | QQ-5-571 | SOLDER SN60 (ES-2175 ALLOY 1) |
| | 182 AR | QQ-5-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) |
| | 17 | 183 1 | 1016048- 18 TERMINAL LUG |

| | | |
|--|---------|---------|
| WAGNER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900943 |
| | A | |
| SCALE: NONE | REV LTR | AR |
| SHEET 15 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|-----|--------|----------------------|-----|-----|---------------|---|---|-------------|---|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC | | | SPEC | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 1 | 2 | STRIP WIRE OR JACKET | 1 | 2 | ITEM NO. | 1 | 2 | ITEM NO. | 1 | 2 |
| | | | CIRCUIT POINT | 3 | 4 | CIRCUIT POINT | 3 | 4 | | | | | | |
| B 3 | 41 | | E 22 | 25N | | TB27- 1 | 16N | 107 | | | | | | |
| B 4 | 41 | | E 22 | 25N | | TB27- 4 | 16N | 107 | | | | | | |
| B 5 | 41 | | E 22 | 25N | | TB27- 7 | 16N | 107 | | | | | | |
| B 6 | 41 | | E 22 | 25N | | TB27- 13 | 16N | 107 | | | | | | |
| B 7 | 41 | | E 16 | 25N | | TB19- 9 | 16N | 107 | | | | | | |
| B 8 | 41 | | E 16 | 25N | | TB19- 7 | 16N | 107 | | | | | | |
| B 9 | 41 | | E 16 | 25N | | TB19- 4 | 16N | 107 | | | | | | |
| B 10 | 41 | | E 16 | 25N | | TB19- 1 | 16N | 107 | | | | | | |
| B 11 | 44 | | | 225 | 200 83 | | | 300 | 270 51 55 836 | | | | | |
| B 11B | 41 | | E 47 | 25N | | SHLD B 11 | 25N | | | | | | | |
| B 11L | | | P30-E | 25N | | TB14- 3 | 20N | 111 | | | | | | |
| B 11R | | | P30-D | 25N | | TB14- 1 | 20N | 111 | | | | | | |
| B 12 | 44 | | | 225 | 200 83 | | | 300 | 270 51 55 836 | | | | | |
| B 12B | 41 | | E 57 | 25N | | SHLD B 12 | 25N | | | | | | | |
| B 12L | | | P18-E | 25N | | TB15- 3 | 20N | 111 | | | | | | |
| B 12R | | | P18-D | 25N | | TB15- 1 | 20N | 111 | | | | | | |
| B 13 | 45 | | | 225 | 200 84 | | | 300 | 270 84 | | | | | |
| B 13B | 41 | | E 50 | 25N | | SHLD B 13 | 25N | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 16 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|-----|--------|----------------------|-----|-----|---------------|---|---|-------------|---|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC | | | SPEC | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 1 | 2 | STRIP WIRE OR JACKET | 1 | 2 | ITEM NO. | 1 | 2 | ITEM NO. | 1 | 2 |
| | | | CIRCUIT POINT | 3 | 4 | CIRCUIT POINT | 3 | 4 | | | | | | |
| B 13L | | | P37-F* | 25N | | TB 2- 2 | 20N | 111 | | | | | | |
| B 13R | | | P37-G* | 25N | | TB 2- 4 | 20N | 111 | | | | | | |
| B 14 | 44 | | | 225 | 200 83 | | | 300 | 270 51 55 836 | | | | | |
| B 14B | 41 | | E 46 | 25N | | SHLD B 14 | 25N | | | | | | | |
| B 14L | | | P50-E | 25N | | TB11- 9 | 20N | 111 | | | | | | |
| B 14R | | | P50-D | 25N | | TB11- 7 | 20N | 111 | | | | | | |
| B 15 | 41 | | P34-U | 25N | | TB 7- 7 | 20N | 111 | | | | | | |
| B 16 | 40 | | P34-W | 25N | 157 | TB 7- 2 | 20N | 111 | | | | | | |
| B 17 | 40 | | P34-X | 25N | 157 | TB 7- 5 | 20N | 111 | | | | | | |
| B 18 | 41 | | P99-F* | 25N | | TB 7- 10 | 20N | 111 | | | | | | |
| B 19 | 44 | | | 225 | 200 83 | | | 300 | 270 51 55 836 | | | | | |
| B 19B | 41 | | E 43 | 25N | | SHLD B 19 | 25N | | | | | | | |
| B 19L | | | P38-E | 25N | | TB 3- 3 | 20N | 111 | | | | | | |
| B 19R | | | P38-D | 25N | | TB 3- 1 | 20N | 111 | | | | | | |
| B 20 | 41 | | E 18 | 25N | | TB18- 49 | 16N | 107 | | | | | | |
| B 21 | 41 | | E 18 | 25N | | TB18- 52 | 16N | 107 | | | | | | |
| B 22 | 41 | | E 18 | 25N | | TB18- 55 | 16N | 107 | | | | | | |
| B 23 | 41 | | E 18 | 25N | | TB18- 58 | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 17 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|-----|-----|----------------------|-----|-----|-------------|---|---|-------------|---|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC | | | SPEC | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 1 | 2 | STRIP WIRE OR JACKET | 1 | 2 | ITEM NO. | 1 | 2 | ITEM NO. | 1 | 2 |
| | | | CIRCUIT POINT | 3 | 4 | CIRCUIT POINT | 3 | 4 | | | | | | |
| B 24 | 41 | | E 18 | 25N | | TB18- 61 | 16N | 107 | | | | | | |
| B 25 | 41 | | E 18 | 25N | | TB18- 64 | 16N | 107 | | | | | | |
| B 26 | 41 | | E 18 | 25N | | TB18- 67 | 16N | 107 | | | | | | |
| B 27 | 41 | | E 18 | 25N | | TB18- 70 | 16N | 107 | | | | | | |
| B 28 | 41 | | E 18 | 25N | | TB18- 73 | 16N | 107 | | | | | | |
| B 29 | 41 | | E 60 | 25N | | TB18- 1 | 16N | 107 | | | | | | |
| B 30 | 41 | | E 60 | 25N | | TB18- 3 | 16N | 107 | | | | | | |
| B 31 | 41 | | E 60 | 25N | | TB18- 6 | 16N | 107 | | | | | | |
| B 32 | 41 | | E 60 | 25N | | TB18- 9 | 16N | 107 | | | | | | |
| B 33 | 41 | | E 60 | 25N | | TB18- 12 | 16N | 107 | | | | | | |
| B 34 | 40 | | P24-EE | 25N | 157 | TB 1- 6 | 20N | 111 | | | | | | |
| B 35 | 40 | | P24-FF | 25N | 157 | TB 1- 9 | 20N | 111 | | | | | | |
| B 36 | | | | | 120 | | | 120 | | | | | | |
| B 36K | 41 | | P24-PP | 25N | | TB 2- 2 | 20N | 111 | | | | | | |
| B 36L | 41 | | P24-LL | 25N | | TB 1- 3 | 20N | 111 | | | | | | |
| B 36R | 41 | | P24-NM | 25N | | TB 1- 2 | 20N | 111 | | | | | | |
| B 36Y | 41 | | P24-NM | 25N | | TB 1- 4 | 20N | 111 | | | | | | |
| B 37 | 41 | | E 8 | 25N | | TB21- 27 | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 18 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|-----|-----|----------------------|-----|-----|-------------|---|---|-------------|---|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC | | | SPEC | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 1 | 2 | STRIP WIRE OR JACKET | 1 | 2 | ITEM NO. | 1 | 2 | ITEM NO. | 1 | 2 |
| | | | CIRCUIT POINT | 3 | 4 | CIRCUIT POINT | 3 | 4 | | | | | | |
| B 38 | 41 | | E 8 | 25N | | TB21- 24 | 16N | 107 | | | | | | |
| B 39 | 41 | | E 8 | 25N | | TB21- 21 | 16N | 107 | | | | | | |
| B 40 | 41 | | E 8 | 25N | | TB21- 18 | 16N | 107 | | | | | | |
| B 41 | 41 | | E 8 | 25N | | TB21- 15 | 16N | 107 | | | | | | |
| B 42 | 41 | | E 8 | 25N | | TB21- 12 | 16N | 107 | | | | | | |
| B 43 | 41 | | E 8 | 25N | | TB21- 9 | 16N | 107 | | | | | | |
| B 44 | 41 | | E 8 | 25N | | TB21- 6 | 16N | 107 | | | | | | |
| B 45 | 41 | | E 8 | 25N | | TB21- 3 | 16N | 107 | | | | | | |
| B 46 | 41 | | TB22- 1 | 16N | 107 | E 2 | 25N | | | | | | | |
| B 47 | 41 | | E 2 | 25N | | TB22- 3 | 16N | 107 | | | | | | |
| B 48 | 41 | | E 2 | 25N | | TB22- 6 | 16N | 107 | | | | | | |
| B 49 | 41 | | E 2 | 25N | | TB22- 9 | 16N | 107 | | | | | | |
| B 50 | 41 | | E 2 | 25N | | TB22- 12 | 16N | 107 | | | | | | |
| B 51 | 41 | | E 2 | 25N | | TB22- 15 | 16N | 107 | | | | | | |
| B 52 | 41 | | E 2 | 25N | | TB22- 18 | 16N | 107 | | | | | | |
| B 53 | 41 | | E 2 | 25N | | TB22- 21 | 16N | 107 | | | | | | |
| B 54 | 41 | | E 2 | 25N | | TB22- 24 | 16N | 107 | | | | | | |
| B 55 | 41 | | E 9 | 25N | | TB20- 1 | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 19 OF 188 | | | | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 56 | 41 | E 9 | 25N | TB20- 3 | 16N 107 |
| B 57 | 41 | E 9 | 25N | TB20- 6 | 16N 107 |
| B 58 | 41 | TB 9- 7 | 16N 111 | TB20- 9 | 16N 107 |
| B 59 | 41 | E 9 | 25N | TB20- 12 | 16N 107 |
| B 60 | 41 | E 9 | 25N | TB20- 15 | 16N 107 |
| B 61 | 41 | E 9 | 25N | TB20- 18 | 16N 107 |
| B 62 | 41 | E 9 | 25N | TB20- 21 | 16N 107 |
| B 63 | 41 | E 17 | 25N | TB18- 15 | 16N 107 |
| B 64 | 41 | E 17 | 25N | TB18- 18 | 16N 107 |
| B 65 | 41 | E 17 | 25N | TB18- 21 | 16N 107 |
| B 66 | 41 | E 17 | 25N | TB18- 24 | 16N 107 |
| B 67 | 41 | E 17 | 25N | TB18- 27 | 16N 107 |
| B 68 | 41 | E 17 | 25N | TB18- 30 | 16N 107 |
| B 69 | 41 | E 17 | 25N | TB18- 33 | 16N 107 |
| B 70 | 41 | E 17 | 25N | TB18- 36 | 16N 107 |
| B 71 | 41 | E 17 | 25N | TB18- 39 | 16N 107 |
| B 72 | 44 | | 225 200 83 | | 300 270 51 55 836 |
| B 72B | 41 | E 52 | 25N | SHLD B 72 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 20 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 72L | | P22-S | 25N | TB 5- 7 | 20N 111 |
| B 72R | | P22-R | 25N | TB 4- 9 | 20N 111 |
| B 73 | 41 | TB23- 21 | 20N 111 | E 22 | 25N |
| B 75 | 44 | | 225 200 83 7 | | 300 270 51 55 836 |
| B 75B | 41 | E 49 | 25N | SHLD B 75 | 25N |
| B 75L | | P 4-E | 25N | TB 2- 1 | 20N 111 |
| B 75R | | P 4-D | 25N | TB 1- 1 | 20N 111 |
| B 76 | 44 | | 225 200 83 7 | | 300 270 51 55 836 |
| B 76B | 41 | E 45 | 25N | SHLD B 76 | 25N |
| B 76L | | P 2-E | 25N | TB 6- 4 | 20N 111 |
| B 76R | | P 2-D | 25N | TB 6- 1 | 20N 111 |
| B 77 | 40 | P64-S | 25N 157 | TB 7- 1 | 20N 111 |
| B 78 | 40 | P64-T | 25N 157 | TB 7- 5 | 20N 111 |
| B 79 | 41 | E 15 | 25N | TB19- 36 | 16N 107 |
| B 80 | 41 | E 15 | 25N | TB19- 33 | 16N 107 |
| B 81 | 41 | E 15 | 25N | TB19- 30 | 16N 107 |
| B 82 | 41 | E 15 | 25N | TB19- 27 | 16N 107 |
| B 83 | 41 | E 15 | 25N | TB19- 24 | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 21 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 84 | 41 | E 15 | 25N | TB19- 21 | 16N 107 |
| B 85 | 41 | E 15 | 25N | TB19- 18 | 16N 107 |
| B 86 | 41 | E 15 | 25N | TB19- 15 | 16N 107 |
| B 87 | 41 | E 15 | 25N | TB19- 12 | 16N 107 |
| B 88 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 |
| B 88A | 41 | SHLD B 88 | 25N | TB17- 15CD | 16N 107 |
| B 88E | | TB17- 15AB | 16N 107 | P61-F1 | 11N 89 |
| B 88X | | SHLD B 88 | | P61-F2 | |
| B 89 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 |
| B 89A | 41 | SHLD B 89 | 25N | TB17- 14CD | 16N 107 |
| B 89E | | TB17- 14AB | 16N 107 | P60-A1 | 11N 89 |
| B 89X | | SHLD B 89 | | P60-A2 | |
| B 90 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 |
| B 90A | 41 | SHLD B 90 | 25N | TB17- 13CD | 16N 107 |
| B 90E | | TB17- 13AB | 16N 107 | P60-B1 | 11N 89 |
| B 90X | | SHLD B 90 | | P60-B2 | |
| B 91 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 |
| B 91A | 41 | SHLD B 91 | 25N | TB17- 12CD | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 22 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 91E | | TB17- 12AB | 16N 107 | P60-C1 | 11N 89 |
| B 91X | | SHLD B 91 | | P60-C2 | |
| B 94 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 |
| B 94B | 41 | TB17- 17CD | 16N 107 | SHLD B 94 | 25N |
| B 94E | | P60-F1 | 11N 89 | TB17- 17AB | 16N 107 |
| B 94X | | P60-F2 | | SHLD B 94 | |
| B 95 | 42 | P36-M | 25N | P34-J* | 25N |
| B 96 | 42 | P36-J | 25N | P98-JJ | 25N |
| B 97 | 42 | P36-K | 25N | P34-K* | 25N |
| B 98 | 42 | P36-P | 25N | P98-L | 25N |
| B 99 | 42 | P36-S | 25N | TB19- 3AB | 16N 107 |
| B 100 | 42 | P36-U | 25N | P98-V* | 25N |
| B 101 | 42 | P36-W | 25N | P34-H* | 25N |
| B 102 | 42 | P36-X | 25N | P98-W | 25N |
| B 103 | 45 | | 225 200 84 7 | | 225 200 50 54 845 |
| B 103B | 41 | E 39 | 25N | SHLD B 103 | 25N |
| B 103L | | P21-Y | 25N | P23-E | 25N |
| B 103R | | P21-X | 25N | P23-D | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 23 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------|---|----------------------|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 104 | 45 | | 225 200 84 | 7 | | 225 200 50 54 845 | | | |
| B 104B | 41 | E 39 | 25N | | | SHLD B 104 | 25N | | |
| B 104L | | P21-A* | 25N | | | P23-C | 25N | | |
| B 104R | | P21-Z | 25N | | | P23-B | 25N | | |
| B 105 | 41 | E 8 | 25N | | | T821- 1 | 16N | 107 | |
| B 106 | 41 | E 10 | 25N | | | T820- 24 | 16N | 107 | |
| B 107 | 41 | E 10 | 25N | | | T820- 27 | 16N | 107 | |
| B 108 | 41 | E 10 | 25N | | | T820- 30 | 16N | 107 | |
| B 109 | 41 | E 10 | 25N | | | T820- 33 | 16N | 107 | |
| B 110 | 41 | E 10 | 25N | | | T820- 36 | 16N | 107 | |
| B 111 | 41 | E 10 | 25N | | | T820- 39 | 16N | 107 | |
| B 112 | 41 | E 10 | 25N | | | T820- 49 | 16N | 107 | |
| B 113 | 41 | E 10 | 25N | | | T820- 52 | 16N | 107 | |
| B 114 | 41 | E 10 | 25N | | | T820- 55 | 16N | 107 | |
| B 115 | 45 | | 225 200 84 | 7 | | 300 270 50 54 845 | | | |
| B 115B | 41 | E 53 | 25N | | | SHLD B 115 | 25N | | |
| B 115L | | P21-C* | 25N | | | TB 5- 10 | 20N | 111 | |
| B 115R | | P21-B* | 25N | | | TB 5- 5 | 20N | 111 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR AR SHEET 24 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------|---|----------------------|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 116 | 45 | | 225 200 84 | 7 | | 300 270 50 54 845 | | | |
| B 116B | 41 | E 53 | 25N | | | SHLD B 116 | 25N | | |
| B 116L | | P21-E* | 25N | | | TB 5- 10 | 20N | 111 | |
| B 116R | | P21-D* | 25N | | | TB 5- 4 | 20N | 111 | |
| B 117 | 45 | | 225 200 84 | 7 | | 300 270 84 | | 7 | |
| B 117B | 41 | E 52 | 25N | | | SHLD B 117 | 25N | | |
| B 117L | | P22-P | 25N | | | TB 5- 6 | 20N | 111 | |
| B 117R | | P22-N | 25N | | | TB 3- 9 | 20N | 111 | |
| B 118 | 40 | P36-T | 25N | 157 | | TB 7- 3 | 20N | 111 | |
| B 119 | 42 | P31-MM | 25N | | | P99-C* | 25N | | |
| B 120 | 42 | P31-NN | 25N | | | P99-H* | 25N | | |
| B 121 | 42 | P31-V* | 25N | | | P99-D* | 25N | | |
| B 122 | 42 | P31-W* | 25N | | | P99-J* | 25N | | |
| B 123 | 42 | P31-MM | 25N | | | P99-E* | 25N | | |
| B 124 | 42 | P31-JJ | 25N | | | P99-I* | 25N | | |
| B 125 | 42 | P31-BB | 25N | | | P98-K | 25N | | |
| B 126 | 42 | P31-X* | 25N | | | P99-DD | 25N | | |
| B 127 | | DELETE | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR AR SHEET 25 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------|---|----------------------|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 128 | 42 | P31-Q* | 25N | | | P98-B | 25N | | |
| B 129 | 42 | P31-D | 25N | | | P98-A | 25N | | |
| B 130 | 42 | P31-J* | 25N | | | P34-W* | 25N | | |
| B 131 | 42 | P31-H* | 25N | | | P34-P* | 25N | | |
| B 132 | 42 | P31-G* | 25N | | | P34-T* | 25N | | |
| B 133 | 42 | P31-A | 25N | | | P98-E* | 25N | | |
| B 134 | 42 | P31-B* | 25N | | | P98-F* | 25N | | |
| B 135 | 42 | P31-A* | 25N | | | P34-R* | 25N | | |
| B 136 | 42 | P31-Z | 25N | | | P34-U* | 25N | | |
| B 137 | 42 | P31-Y | 25N | | | P98-D* | 25N | | |
| B 138 | 42 | P31-J | 25N | | | P34-X* | 25N | | |
| B 139 | 42 | P31-T | 25N | | | P98-M | 25N | | |
| B 140 | 42 | P31-S | 25N | | | P98-Y | 25N | | |
| B 141 | 42 | P31-L | 25N | | | P98-X | 25N | | |
| B 142 | 41 | P31-B | 25N | | | P98-Z | 25N | | |
| B 143 | 42 | P31-W | 25N | | | P98-B* | 25N | | |
| B 144 | 42 | P31-V | 25N | | | P98-A* | 25N | | |
| B 145 | 42 | P31-F | 25N | | | P31-LL | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR AR SHEET 26 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|-------------------|-------------|---|----------------------|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 147 | 42 | P92-P | 25N | | | P98-C | 25N | | |
| B 148 | 42 | P96-U | 25N | | | P34-F | 25N | | |
| B 149 | 42 | P96-W | 25N | | | P99-BB | 25N | | |
| B 150 | 42 | P92-W | 25N | | | P99-K* | 25N | | |
| B 152 | 41 | E 63 | 20N | 111 | | E 19 | 25N | | |
| B 153 | 41 | E 63 | 20N | 111 | | E 20 | 25N | | |
| B 156 | 40 | P 5-V* | 25N | 166 | | TB14- 9 | 20N | 111 | |
| B 157 | 40 | P 5-BB | 25N | 166 | | TB14- 7 | 20N | 111 | |
| B 158 | 44 | | 225 200 83 | 7 | | 300 270 51 55 836 | | | |
| B 158B | 41 | E 47 | 25N | | | SHLD B 158 | 25N | | |
| B 158L | | P 8-E | 25N | | | TB14- 4 | 20N | 111 | |
| B 158R | | P 8-D | 25N | | | TB14- 2 | 20N | 111 | |
| B 159 | 65 | | 225 200 86 87 856 | | | 52 23 90 91 7 | | | |
| B 159A | 41 | SHLD B 159 | 25N | | | TB17- 29CD | 16N | 107 | |
| B 159E | | TB17- 29AB | 16N | 107 | | P62-F1 | 11N | 89 | |
| B 159X | | SHLD B 159 | | | | P62-F2 | | | |
| B 160 | 65 | | 225 200 86 87 856 | | | 52 23 90 91 7 | | | |
| B 160A | 41 | SHLD B 160 | 25N | | | TB17- 28CD | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR AR SHEET 27 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|----------|---------------------------------------|----------------------------|---------------|-----|------------|---------------------------------------|----------------------------|----------|-----|--|--|--|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | | TO | | | | | TERMINATION SPEC. 1 2 3 | | |
| | | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | | | |
| B 160E | | | TB17- 28AB | 16M | 107 | | P61-A1 | 11M | 89 | | | | | |
| B 160X | | | SHLD B 160 | | | | P61-A2 | | | | | | | |
| B 161 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 161A | 41 | | SHLD B 161 | 25M | | | TB17- 27CD | 16M | 107 | | | | | |
| B 161E | | | TB17- 27AB | 16M | 107 | | P61-B1 | 11M | 89 | | | | | |
| B 161X | | | SHLD B 161 | | | | P61-B2 | | | | | | | |
| B 162 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 162A | 41 | | SHLD B 162 | 25M | | | TB17- 26CD | 16M | 107 | | | | | |
| B 162E | | | TB17- 26AB | 16M | 107 | | P61-C1 | 11M | 89 | | | | | |
| B 162X | | | SHLD B 162 | | | | P61-C2 | | | | | | | |
| B 163 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 163A | 41 | | SHLD B 163 | 25M | | | TB17- 25CD | 16M | 107 | | | | | |
| B 163E | | | TB17- 25AB | 16M | 107 | | P61-D1 | 11M | 89 | | | | | |
| B 163X | | | SHLD B 163 | | | | P61-D2 | | | | | | | |
| B 164 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 164A | 41 | | SHLD B 164 | 25M | | | TB17- 4CD | 16M | 107 | | | | | |
| B 164E | | | TB17- 4AB | 16M | 107 | | P61-E1 | 11M | 89 | | | | | |
| B 164X | | | SHLD B 164 | | | | P61-E2 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 28 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|----------|---------------------------------------|----------------------------|---------------|-----|------------|---------------------------------------|----------------------------|----------|-----|--|--|--|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | | TO | | | | | TERMINATION SPEC. 1 2 3 | | |
| | | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | | | |
| B 165 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 165A | | | DELETED | | | | | | | | | | | |
| B 165E | | | TB17- 21AB | 16M | 107 | | P61-J1 | 11M | 89 | | | | | |
| B 165X | | | SHLD B 165 | | | | P61-J2 | | | | | | | |
| B 166 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 166A | | | DELETED | | | | | | | | | | | |
| B 166E | | | TB17- 23AB | 16M | 107 | | P60-G1 | 11M | 89 | | | | | |
| B 166X | | | SHLD B 166 | | | | P60-G2 | | | | | | | |
| B 167 | 65 | | | 225 | 200 86 87 856 | | | 52 | 23 90 91 | 7 | | | | |
| B 167A | | | DELETED | | | | | | | | | | | |
| B 167E | | | TB17- 22AB | 16M | 107 | | P60-H1 | 11M | 89 | | | | | |
| B 167X | | | SHLD B 167 | | | | P60-H2 | | | | | | | |
| B 168 | 65 | | | 52 | 23 90 91 | 7 | | | | | | | | |
| B 168E | 41 | | TB27- 23CD | 16M | 107 | | SHLD B 168 | 25M | | | | | | |
| B 168E | | | P62-G1 | 11M | 89 | | TB27- 23AB | 16M | 107 | | | | | |
| B 168X | | | P62-G2 | | | | SHLD B 168 | | | | | | | |
| B 169 | 44 | | | 225 | 200 83 | 7 | | | | | | | | |
| B 169E | 41 | | E 45 | 25M | | | SHLD B 169 | 25M | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 29 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|----------|---------------------------------------|----------------------------|----------|-----|----------|---------------------------------------|----------------------------|----------|-----|--|--|--|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | | TO | | | | | TERMINATION SPEC. 1 2 3 | | |
| | | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | | | |
| B 169L | | | P59-E | 25M | | | TB 6- 5 | 20M | 111 | | | | | |
| B 169R | | | P59-D | 25M | | | TB 6- 2 | 20M | 111 | | | | | |
| B 170 | 40 | | P37-GG | 25M | 157 | | TB 1- 10 | 20M | 111 | | | | | |
| B 171 | 42 | | P24-Q* | 25M | | | P37-E* | 25M | | | | | | |
| B 172 | 42 | | P24-R* | 25M | | | P11-M* | 25M | | | | | | |
| B 173 | 41 | | E 3 | 25M | | | TB22- 27 | 16M | 107 | | | | | |
| B 174 | 41 | | E 3 | 25M | | | TB22- 30 | 16M | 107 | | | | | |
| B 175 | 41 | | E 3 | 25M | | | TB22- 33 | 16M | 107 | | | | | |
| B 176 | 41 | | E 3 | 25M | | | TB22- 36 | 16M | 107 | | | | | |
| B 177 | 41 | | E 3 | 25M | | | TB22- 39 | 16M | 107 | | | | | |
| B 178 | 41 | | E 3 | 25M | | | TB22- 49 | 16M | 107 | | | | | |
| B 179 | 41 | | E 3 | 25M | | | TB22- 52 | 16M | 107 | | | | | |
| B 180 | 41 | | E 3 | 25M | | | TB22- 55 | 16M | 107 | | | | | |
| B 181 | 41 | | E 3 | 25M | | | TB22- 58 | 16M | 107 | | | | | |
| B 182 | 41 | | P99-S | 25M | | | TB 8- 1 | 20M | 111 | | | | | |
| B 183 | 42 | | P24-L | 25M | | | P11-J* | 25M | | | | | | |
| B 184 | 42 | | P24-N* | 25M | | | P11-H* | 25M | | | | | | |
| B 185 | 42 | | P24-P* | 25M | | | P11-K* | 25M | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 30 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----|----------|---------------------------------------|----------------------------|---------------|-----|----------|---------------------------------------|----------------------------|----------|-----|--|--|--|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | | TO | | | | | TERMINATION SPEC. 1 2 3 | | |
| | | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 2 3 | ITEM NO. | NO. | | | |
| B 186 | 42 | | P24-S* | 25M | | | P11-M* | 25M | | | | | | |
| B 187 | 42 | | P24-M* | 25M | | | P11-I* | 25M | | | | | | |
| B 188 | 41 | | E 62 | 20M | | | E 14 | 25M | | | | | | |
| B 190 | 41 | | E 7 | 25M | | | TB21- 61 | 16M | 107 | | | | | |
| B 191 | 41 | | E 7 | 25M | | | TB21- 58 | 16M | 107 | | | | | |
| B 192 | 41 | | E 7 | 25M | | | TB21- 55 | 16M | 107 | | | | | |
| B 193 | 41 | | E 7 | 25M | | | TB21- 52 | 16M | 107 | | | | | |
| B 194 | 41 | | E 7 | 25M | | | TB21- 49 | 16M | 107 | | | | | |
| B 195 | 41 | | E 7 | 25M | | | TB21- 39 | 16M | 107 | | | | | |
| B 196 | 41 | | E 7 | 25M | | | TB21- 36 | 16M | 107 | | | | | |
| B 197 | 41 | | E 7 | 25M | | | TB21- 33 | 16M | 107 | | | | | |
| B 198 | 41 | | E 7 | 25M | | | TB21- 30 | 16M | 107 | | | | | |
| B 199 | 65 | | | 225 | 200 86 87 856 | | | 50 | 31 | 7 | | | | |
| B 199A | 41 | | SHLD B 199 | 25M | | | P65-M* | 25M | | | | | | |
| B 199E | | | P65-H | 25M | | | P53-H | 11M | | | | | | |
| B 199X | | | SHLD B 199 | | | | P53-L | | | | | | | |
| B 200 | 65 | | | 225 | 200 86 87 856 | | | 50 | 31 | 7 | | | | |
| B 200A | | | DELETE | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 31 OF 188 | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|------------|-------------------|--|---------------|-------------|-------------|-----------------|-------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | NO. | |
| NUMBER | ITEM NO. | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION |
| B 200E | | P65-J | 25N | P51-H | 11M | | | | |
| B 200X | | SHLD B 200 | | P51-L | | | | | |
| B 201 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 201A | 41 | SHLD B 201 | 25N | TB17- 39CD | 16M | 107 | | | |
| B 201E | | TB17- 39AB | 16M | P61-G1 | 11M | 89 | | | |
| B 201X | | SHLD B 201 | | P61-G2 | | | | | |
| B 202 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 202A | 41 | SHLD B 202 | 25N | TB17- 38CD | 16M | 107 | | | |
| B 202E | | TB17- 38AB | 16M | P61-M1 | 11M | 89 | | | |
| B 202X | | SHLD B 202 | | P61-M2 | | | | | |
| B 203 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 203A | 41 | SHLD B 203 | 25N | TB17- 31CD | 16M | 107 | | | |
| B 203E | | TB17- 31AB | 16M | P60-J1 | 11M | 89 | | | |
| B 203X | | SHLD B 203 | | P60-J2 | | | | | |
| B 204 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 204A | 41 | SHLD B 204 | 25N | TB17- 30CD | 16M | 107 | | | |
| B 204E | | TB17- 30AB | 16M | P62-E1 | 11M | 89 | | | |
| B 204X | | SHLD B 204 | | P62-E2 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | |
| | | | | SCALE-NONE | | REV LTR AR | | SHEET 32 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|-----------|--------------|--|--------------------|-------------|-------------|-----------------|-------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | NO. | |
| NUMBER | ITEM NO. | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION |
| B 205 | 45 | | 225 200 84 7 | | 300 270 50 54 846 | | | | |
| B 205B | 41 | E 50 | 25N | SHLD B 205 | 25N | | | | |
| B 205L | | P24-HH | 25N | TB 2- 1 | 20M | 111 | | | |
| B 205R | | P24-GG | 25N | TB 2- 4 | 20M | 111 | | | |
| B 206 | 44 | | 225 200 84 7 | | 225 200 50 54 84 5 | | | | |
| B 206B | 41 | E 55 | 25N | SHLD B 206 | 25N | | | | |
| B 206L | | P33-E | 25N | TB 7- 4 | 20M | 111 | | | |
| B 206R | | P33-D | 25N | TB 7- 1 | 20M | 111 | | | |
| B 207 | 41 | P82-S* | 25N | TB12- 7 | 20M | 111 | | | |
| B 208 | 41 | P82-T* | 25N | TB12- 9 | 20M | 111 | | | |
| B 209 | 02 | | 120 | | 120 | | | | |
| B 209L | | P22-K | 25N | TB 3- 7 | 20M | 111 | | | |
| B 209R | | P22-J | 25N | TB 3- 5 | 20M | 111 | | | |
| B 210 | 41 | E 13 | 25N | TB19- 94 | 16M | 107 | | | |
| B 211 | 41 | E 13 | 25N | TB19- 91 | 16M | 107 | | | |
| B 212 | 41 | E 13 | 25N | TB19- 88 | 16M | 107 | | | |
| B 213 | 41 | E 13 | 25N | TB19- 85 | 16M | 107 | | | |
| B 214 | 41 | E 13 | 25N | TB19- 82 | 16M | 107 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | |
| | | | | SCALE-NONE | | REV LTR AR | | SHEET 33 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|------------|-------------------|--|---------------|-------------|-------------|-----------------|-------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | NO. | |
| NUMBER | ITEM NO. | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION |
| B 215 | 41 | E 13 | 25N | TB19- 80 | 16M | 107 | | | |
| B 216 | 41 | E 13 | 25N | TB19- 78 | 16M | 107 | | | |
| B 217 | 41 | E 13 | 25N | TB19- 75 | 16M | 107 | | | |
| B 218 | 41 | E 13 | 25N | TB19- 72 | 16M | 107 | | | |
| B 219 | 41 | P91-Z | 25N | TB23- 13 | 20M | 111 | | | |
| B 220 | 41 | E 11 | 25N | TB20- 58 | 16M | 107 | | | |
| B 221 | 41 | E 11 | 25N | TB20- 61 | 16M | 107 | | | |
| B 222 | 41 | E 11 | 25N | TB20- 64 | 16M | 107 | | | |
| B 223 | 41 | E 11 | 25N | TB20- 67 | 16M | 107 | | | |
| B 224 | 41 | E 11 | 25N | TB20- 69 | 16M | 107 | | | |
| B 225 | 41 | E 11 | 25N | TB20- 72 | 16M | 107 | | | |
| B 226 | 41 | E 11 | 25N | TB20- 75 | 16M | 107 | | | |
| B 227 | 41 | E 11 | 25N | TB20- 77 | 16M | 107 | | | |
| B 228 | 41 | E 11 | 25N | TB20- 80 | 16M | 107 | | | |
| B 229 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 229A | 41 | SHLD B 229 | 25N | TB17- 43CD | 16M | 107 | | | |
| B 229E | | TB17- 43AB | 16M | P62-K1 | 11M | 89 | | | |
| B 229X | | SHLD B 229 | | P62-K2 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | |
| | | | | SCALE-NONE | | REV LTR AR | | SHEET 34 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|------------|-------------------|--|---------------|-------------|-------------|-----------------|-------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | NO. | |
| NUMBER | ITEM NO. | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION | CONDUCTOR | TERMINATION |
| B 230 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 230A | 41 | SHLD B 230 | 25N | TB17- 42CD | 16M | 107 | | | |
| B 230E | | TB17- 42AB | 16M | P62-B1 | 11M | 89 | | | |
| B 230X | | SHLD B 230 | | P62-B2 | | | | | |
| B 231 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 231A | 41 | SHLD B 231 | 25N | TB17- 41CD | 16M | 107 | | | |
| B 231E | | TB17- 41AB | 16M | P62-C1 | 11M | 89 | | | |
| B 231X | | SHLD B 231 | | P62-C2 | | | | | |
| B 232 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 | | | | |
| B 232A | 41 | SHLD B 232 | 25N | TB17- 40CD | 16M | 107 | | | |
| B 232E | | TB17- 40AB | 16M | P62-D1 | 11M | 89 | | | |
| B 232X | | SHLD B 232 | | P62-D2 | | | | | |
| B 233 | 41 | E 62 | 20M | E 12 | 25N | | | | |
| B 234 | 41 | E 63 | 20M | E 13 | 25N | | | | |
| B 237 | 41 | E 19 | 25N | TB18- 75 | 16M | 107 | | | |
| B 238 | 41 | E 19 | 25N | TB18- 78 | 16M | 107 | | | |
| B 239 | 41 | E 19 | 25N | TB18- 81 | 16M | 107 | | | |
| B 240 | 41 | E 19 | 25N | TB18- 84 | 16M | 107 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900943 | |
| | | | | SCALE-NONE | | REV LTR AR | | SHEET 35 OF 188 | |

AR 1900943

| | | | |
|--|---------|---------|-------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1906943 | |
| SCALE - NONE | REV LTR | AR | SHEET |

AR 1900943

| | | | |
|--|---------|---------|-------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900943 | |
| SCALE - NONE | REV LTR | AR | SHEET |

AR 1900943

| | | | |
|--|---------|---------|-----|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900943 | |
| SCALE - NONE | REV LTR | AR | SHE |

AR 1900943

| | | | |
|--|---------|---------|-----|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900943 | |
| SCALE - NONE | REV LTR | AR | SHE |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----------|--|---------------|-------------|------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 295A | 46 | P20-1* | 25N | | | J16-R* | 25N | | |
| B 296 | 46 | | 225 | 200 | 48 52 845 | | 225 | 200 | 85 7 |
| B 296A | 41 | SHLD B 296 | 25N | | | E 28 | 25N | | |
| B 296L | | P20-F* | 25N | | | J16-Q* | 25N | | |
| B 296R | | P20-G* | 25N | | | J16-P* | 25N | | |
| B 297 | 46 | | 225 | 200 | 48 52 845 | | 225 | 200 | 85 7 |
| B 297A | 41 | SHLD B 297 | 25N | | | E 28 | 25N | | |
| B 297L | | P20-D* | 25N | | | J16-N* | 25N | | |
| B 297R | | P20-E* | 25N | | | J16-M* | 25N | | |
| B 298 | 46 | | 225 | 200 | 48 52 845 | | 225 | 200 | 85 7 |
| B 298A | 41 | SHLD B 298 | 25N | | | E 28 | 25N | | |
| B 298L | | P20-B* | 25N | | | J16-K* | 25N | | |
| B 298R | | P20-C* | 25N | | | J16-J* | 25N | | |
| B 299 | 41 | P92-N* | 25N | | | TB23- 14 | 20N | 111 | |
| B 300 | 41 | E 61 | 20N | 111 | | E 6 | 25N | | |
| B 301 | 41 | E 63 | 20N | 111 | | E 18 | 25N | | |
| B 303 | 41 | E 63 | 20N | 111 | | E 17 | 25N | | |
| B 305 | 41 | E 12 | 25N | | | TB19-100 | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 40 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|------|--|---------------|-------------|-----------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 317L | | P82-L | 25N | | | TB19- 29CD | 16N | 107 | |
| B 317R | | P82-K | 25N | | | TB19- 29AB | 16N | 107 | |
| B 318 | 46 | | 225 | 200 | 85 7 | | 400 | 370 | 48 52 846 |
| B 318B | 41 | TB19- 24 | 16N | 107 | | SHLD B 318 | 25N | | |
| B 318L | | P82-C* | 25N | | | TB19- 25CD | 16N | 107 | |
| B 318R | | P82-B* | 25N | | | TB19- 25AB | 16N | 107 | |
| B 319 | 46 | | 225 | 200 | 85 7 | | 400 | 370 | 48 52 846 |
| B 319B | 41 | TB19- 24 | 16N | 107 | | SHLD B 319 | 25N | | |
| B 319L | | P82-E* | 25N | | | TB19- 23CD | 16N | 107 | |
| B 319R | | P82-D* | 25N | | | TB19- 23AB | 16N | 107 | |
| B 320 | 46 | | 225 | 200 | 85 7 | | 400 | 370 | 48 52 846 |
| B 320B | 41 | TB19- 27 | 16N | 107 | | SHLD B 320 | 25N | | |
| B 320L | | P82-G* | 25N | | | TB19- 26CD | 16N | 107 | |
| B 320R | | P82-F* | 25N | | | TB19- 26AB | 16N | 107 | |
| B 321 | 41 | E 20 | 25N | | | TB17-100 | 16N | 107 | |
| B 322 | 41 | E 20 | 25N | | | TB17- 97 | 16N | 107 | |
| B 323 | 41 | E 20 | 25N | | | TB17- 94 | 16N | 107 | |
| B 324 | 41 | E 20 | 25N | | | TB17- 91 | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 42 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 325 | 41 | E 20 | 25N | | | TB17- 88 | 16N | 107 | |
| B 326 | 41 | E 20 | 25N | | | TB17- 86 | 16N | 107 | |
| B 327 | 41 | E 20 | 25N | | | TB17- 83 | 16N | 107 | |
| B 328 | 41 | E 20 | 25N | | | TB17- 80 | 16N | 107 | |
| B 329 | 41 | E 20 | 25N | | | TB17- 77 | 16N | 107 | |
| B 330 | 42 | P21-R* | 25N | | | J18-FF | 25N | | |
| B 331 | 42 | P21-M* | 25N | | | J18-GG | 25N | | |
| B 332 | 41 | E 14 | 25N | | | TB19- 69 | 16N | 107 | |
| B 333 | 41 | E 14 | 25N | | | TB19- 66 | 16N | 107 | |
| B 334 | 41 | E 14 | 25N | | | TB19- 63 | 16N | 107 | |
| B 335 | 41 | E 14 | 25N | | | TB19- 61 | 16N | 107 | |
| B 336 | 41 | E 14 | 25N | | | TB19- 58 | 16N | 107 | |
| B 337 | 41 | E 14 | 25N | | | TB19- 55 | 16N | 107 | |
| B 338 | 41 | E 14 | 25N | | | TB19- 52 | 16N | 107 | |
| B 339 | 41 | E 14 | 25N | | | TB19- 49 | 16N | 107 | |
| B 340 | 41 | TB 9- 7 | 16N | 111 | | TB19- 39 | 16N | 107 | |
| B 341 | 41 | E 12 | 25N | | | TB20- 83 | 16N | 107 | |
| B 342 | 41 | E 12 | 25N | | | TB20- 85 | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 43 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|------|--|---------------|-------------|-----------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 306 | 41 | E 12 | 25N | | | TB19- 97 | 16N | 107 | |
| B 307 | 40 | P91-A | 25N | | | TB25- 7 | 20N | 111 | |
| B 308 | 41 | E 5 | 25N | | | TB22- 88 | 16N | 107 | |
| B 309 | 41 | E 5 | 25N | | | TB22- 91 | 16N | 107 | |
| B 310 | 41 | E 5 | 25N | | | TB22- 94 | 16N | 107 | |
| B 311 | 41 | E 5 | 25N | | | TB22- 98 | 16N | 107 | |
| B 312 | 41 | E 5 | 25N | | | TB22-100 | 16N | 107 | |
| B 313 | 47 | | 225 | 200 | 85 | | 300 | 270 | 48 52 846 |
| B 313B | 41 | TB20- 18 | 16N | 107 | | SHLD B 313 | 25N | | |
| B 313L | | P36-K* | 25N | | | TB20- 19CD | 16N | 107 | |
| B 313R | | P36-J* | 25N | | | TB20- 19AB | 16N | 107 | |
| B 314 | 41 | E 62 | 20N | 111 | | E 15 | 25N | | |
| B 316 | 46 | | 225 | 200 | 85 7 | | 400 | 370 | 48 52 846 |
| B 316B | 41 | TB18- 9 | 16N | 107 | | SHLD B 316 | 25N | | |
| B 316L | | P82-J | 25N | | | TB18- 8CD | 16N | 107 | |
| B 316R | | P82-H | 25N | | | TB18- 8AB | 16N | 107 | |
| B 317 | 46 | | 225 | 200 | 85 7 | | 400 | 370 | 48 52 846 |
| B 317B | 41 | TB19- 30 | 16N | 107 | | SHLD B 317 | 25N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE-NONE REV LTR AR SHEET 41 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|----------------|----------------------|---------------|-----|-------------|--|-----|----------------------|---------------|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 |
| B 343 | 41 | | E 12 | 25N | | TB20- 88 | 16N | 107 | | | | | | |
| B 344 | 41 | | E 12 | 25N | | TB20- 91 | 16N | 107 | | | | | | |
| B 345 | 41 | | E 12 | 25N | | TB20- 94 | 16N | 107 | | | | | | |
| B 346 | 41 | | E 12 | 25N | | TB20- 97 | 16N | 107 | | | | | | |
| B 347 | 41 | | E 12 | 25N | | TB20-100 | 16N | 107 | | | | | | |
| B 348 | 41 | | P82-A | 25N | | TB25- 1 | 20N | 111 | | | | | | |
| B 349 | 41 | | E 61 | 20N | 111 | E 4 | 25N | | | | | | | |
| B 350 | 41 | | E 61 | 20N | 111 | E 7 | 25N | | | | | | | |
| B 351 | 41 | | E 62 | 20N | 111 | E 10 | 25N | | | | | | | |
| B 354 | 41 | | E 5 | 25N | | TB21-100 | 16N | 107 | | | | | | |
| B 355 | 41 | | E 5 | 25N | | TB21- 97 | 16N | 107 | | | | | | |
| B 356 | 41 | | E 5 | 25N | | TB21- 94 | 16N | 107 | | | | | | |
| B 357 | 41 | | E 5 | 25N | | TB21- 91 | 16N | 107 | | | | | | |
| B 358 | 98 | | | 225 | 200 103 53 845 | | | 225 | 200 84 | | | | | |
| B 358A | 41 | | SHLD B 358 | 25N | | E 30 | 25N | | | | | | | |
| B 358L | | | P21-NN | 25N | | J24-Y | 25N | | | | | | | |
| B 358R | | | P21-LL | 25N | | J24-X | 25N | | | | | | | |
| B 358Y | | | P21-MM | 25N | | J24-Z | 25N | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 44 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|----------------|----------------------|---------------|-----|---------------|--|-----|----------------------|---------------|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 |
| B 359 | 08 | | | | | | | | | | 120 | | | |
| B 359L | | | P21-X* | 25N | | J24-DD | 25N | | | | | | | |
| B 359R | | | P21-W* | 25N | | J24-CC | 25N | | | | | | | |
| B 360 | 45 | | | 225 | 200 84 | | | 225 | 200 84 | | | | | |
| B 360B | 41 | | E 26 | 25N | | SHLD B 360 | 25N | | | | | | | |
| B 360L | | | P21-BB | 25N | | J24-FF | 25N | | | | | | | |
| B 360R | | | P21-AA | 25N | | J24-EE | 25N | | | | | | | |
| B 361 | 98 | | | 225 | 200 103 53 845 | | | 225 | 200 84 | | | | | |
| B 361A | 41 | | SHLD B 361 | 25N | | E 30 | 25N | | | | | | | |
| B 361L | | | P21-T* | 25N | | J24-J | 25N | | | | | | | |
| B 361R | | | P21-U* | 25N | | J24-G | 25N | | | | | | | |
| B 361Y | | | P21-S* | 25N | | J24-H | 25N | | | | | | | |
| B 362 | 65 | | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | | | | | |
| B 362A | 41 | | SHLD B 362 | 25N | | P21-DD | 25N | | | | | | | |
| B 362B | 41 | | J24-N | 25N | | SHLD B 362 | 25N | | | | | | | |
| B 362E | | | P21-CC | 25N | | J24-M | 25N | | | | | | | |
| B 363 | 46 | | | 225 | 200 85 7 | | | 400 | 370 48 52 846 | | | | | |
| B 363B | 41 | | TB19- 30 | 16N | 107 | SHLD B 363 | 25N | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 45 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|------------|----------------------|---------------|-----|----------------|--|-----|----------------------|---------------|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 |
| B 363L | | | P82-J* | 25N | | TB19- 31CD | 16N | 107 | | | | | | |
| B 363R | | | P82-H* | 25N | | TB19- 31AB | 16N | 107 | | | | | | |
| B 364 | 46 | | | 225 | 200 85 7 | | | 400 | 370 48 52 846 | | | | | |
| B 364B | 41 | | TB19- 27 | 16N | 107 | SHLD B 364 | 25N | | | | | | | |
| B 364L | | | P82-X* | 25N | | TB19- 28CD | 16N | 107 | | | | | | |
| B 364R | | | P82-W* | 25N | | TB19- 28AB | 16N | 107 | | | | | | |
| B 365 | 16 | | P63-A | 25N | | TB25- 4 | 20N | 111 | | | | | | |
| B 366 | 16 | | TB20- 11AB | 25N | 108 | TB 9- 1 | 20N | 111 | | | | | | |
| B 367 | 178 | | E 1 | 40N | 179 | TB 9- 5 | 40N | 179 | | | | | | |
| B 368 | 41 | | E 62 | 25N | 111 | E 5 | 25N | | | | | | | |
| B 370 | 65 | | | 52 | 25 90 91 7 | | | 225 | 200 86 87 856 | | | | | |
| B 370B | 41 | | TB18- 76 | 16N | 107 | SHLD B 370 | 25N | | | | | | | |
| B 370E | | | P66-B1 | 11N | 89 | TB18- 77 | 16N | 107 | | | | | | |
| B 370X | | | P66-B2 | | | SHLD B 370 | | | | | | | | |
| B 371 | 65 | | | 52 | 25 90 91 7 | | | 225 | 200 86 87 85 6 | | | | | |
| B 371B | 41 | | TB18- 72CD | 16N | 107 | SHLD B 371 | 25N | | | | | | | |
| B 371E | | | P66-D1 | 11N | 89 | TB18- 72AB | | | | | | | | |
| B 371X | | | P66-D2 | | | SHLD B 371 | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 46 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|---------------|----------------------|---------------|-----|---------------|--|-----|----------------------|---------------|---|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 |
| B 372 | 41 | | P35-A | 25N | | TB25- 8 | 20N | 111 | | | | | | |
| B 373 | 41 | | E 62 | 25N | | E 9 | 25N | | | | | | | |
| B 374 | 41 | | E 62 | 25N | | E 16 | 25N | | | | | | | |
| B 375 | | | DELETE | | | | | | | | | | | |
| B 377 | 42 | | P35-X | 25N | | TB19- 98AB | 16N | 107 | | | | | | |
| B 378 | 41 | | P99-P* | 25N | | TB23- 14 | 20N | 111 | | | | | | |
| B 379 | 16 | | J 3-MM | 25N | | TB13- 5 | 20N | 111 | | | | | | |
| B 380 | 45 | | | 225 | 200 50 54 845 | | | 225 | 200 84 | | | | | |
| B 380A | 41 | | SHLD B 380 | 25N | | E 30 | 25N | | | | | | | |
| B 380L | | | P21-MM | 25N | | J25-N* | 25N | | | | | | | |
| B 380R | | | P21-GG | 25N | | J25-M* | 25N | | | | | | | |
| B 381 | 45 | | | 225 | 200 84 | | | 225 | 200 84 | | | | | |
| B 381B | 41 | | E 25 | 25N | | SHLD B 381 | 25N | | | | | | | |
| B 381L | | | P21-KK | 25N | | J25-K* | 25N | | | | | | | |
| B 381R | | | P21-JJ | 25N | | J25-J* | 25N | | | | | | | |
| B 382 | 44 | | | 225 | 200 83 7 | | | 300 | 270 51 55 895 | | | | | |
| B 382B | 41 | | E 44 | 25N | | SHLD B 382 | 25N | | | | | | | |
| B 382L | | | P42-E | 25N | | TB10- 6 | 20N | 111 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 47 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------------------|-------------------|---|-----|-------------|-----|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | SPEC. | | SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B 382R | | P42-D | 25N | TB10- 3 | 20N | 111 | | | |
| B 383 | 44 | | 225 200 86 87 856 | 300 | 270 51 55 856 | | | | |
| B 383B | 41 | E 44 | | SHLD B 383 | 25N | | | | |
| B 383L | | P44-E | 25N | TB10- 5 | 20N | 111 | | | |
| B 383R | | P44-D | 25N | TB10- 3 | 20N | 111 | | | |
| B 384 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 384B | 41 | TB17- 49CD | 16N | SHLD B 384 | 25N | | | | |
| B 384E | | P67-A1 | 11N | TB17- 49AB | 16N | 107 | | | |
| B 384X | | P67-A2 | | SHLD B 384 | | | | | |
| B 385 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 385B | 41 | TB17- 48CD | 16N | SHLD B 385 | 25N | | | | |
| B 385E | | P69-B1 | 11N | TB17- 48AB | 16N | 107 | | | |
| B 385X | | P69-B2 | | SHLD B 385 | | | | | |
| B 386 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 386B | 41 | TB17- 47CD | 16N | SHLD B 386 | 25N | | | | |
| B 386E | | P67-B1 | 11N | TB17- 47AB | 16N | 107 | | | |
| B 386X | | P67-B2 | | SHLD B 386 | | | | | |
| B 387 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 48 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|-------------------|---|-----|-------------|-----|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | SPEC. | | SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B 387B | 41 | TB17- 46CD | 16N | SHLD B 387 | 25N | | | | |
| B 387E | | P69-C1 | 11N | TB17- 46AB | 16N | 107 | | | |
| B 387X | | P69-C2 | | SHLD B 387 | | | | | |
| B 388 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 388B | 41 | TB17- 45CD | 16N | SHLD B 388 | 25N | | | | |
| B 388E | | P67-C1 | 11N | TB17- 45AB | 16N | 107 | | | |
| B 388X | | P67-C2 | | SHLD B 388 | | | | | |
| B 389 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 389B | 41 | TB17- 44CD | 16N | SHLD B 389 | 25N | | | | |
| B 389E | | P69-D1 | 11N | TB17- 44AB | 16N | 107 | | | |
| B 389X | | P69-D2 | | SHLD B 389 | | | | | |
| B 390 | 41 | E 61 | 25N | E 3 | 25N | | | | |
| B 392 | 41 | P82-Q* | 25N | TB23- 18 | 20N | 111 | | | |
| B 393 | 40 | J20-N | 25N | TB 3- 6 | 20N | 111 | | | |
| B 394 | 40 | J20-D | 25N | TB 3- 8 | 20N | 111 | | | |
| B 395 | 41 | E 61 | 25N | E 8 | 25N | | | | |
| B 397 | 42 | P34-N | 25N | P37-EE | 25N | | | | |
| B 398 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 49 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|-------------------|---|-----|-------------|-----|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | SPEC. | | SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B 398B | 41 | TB17- 37CD | 16N | SHLD B 398 | 25N | | | | |
| B 398E | | P67-G1 | 11N | TB17- 37AB | 16N | 107 | | | |
| B 398X | | P67-G2 | | SHLD B 398 | | | | | |
| B 399 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 399B | 41 | TB17- 36CD | 16N | SHLD B 399 | 25N | | | | |
| B 399E | | P69-H1 | 11N | TB17- 36AB | 16N | 107 | | | |
| B 399X | | P69-H2 | | SHLD B 399 | | | | | |
| B 400 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 400B | 41 | TB17- 35CD | 16N | SHLD B 400 | 25N | | | | |
| B 400E | | P67-H1 | 11N | TB17- 35AB | 16N | 107 | | | |
| B 400X | | P67-H2 | | SHLD B 400 | | | | | |
| B 401 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 401B | 41 | TB17- 34CD | 16N | SHLD B 401 | 25N | | | | |
| B 401E | | P69-J1 | 11N | TB17- 34AB | 16N | 107 | | | |
| B 401X | | P69-J2 | | SHLD B 401 | | | | | |
| B 402 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 402B | 41 | TB17- 33CD | 16N | SHLD B 402 | 25N | | | | |
| B 402E | | P67-J1 | 11N | TB17- 33AB | 16N | 107 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 50 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|-------------------|---|-----|-------------|-----|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | SPEC. | | SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B 402X | | P67-J2 | | SHLD B 402 | | | | | |
| B 403 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 | | | | |
| B 403B | 41 | TB17- 32CD | 16N | SHLD B 403 | 25N | | | | |
| B 403E | | P70-A1 | 11N | TB17- 32AB | 16N | 107 | | | |
| B 403X | | P70-A2 | | SHLD B 403 | | | | | |
| B 404 | 16 | P33-B | 25N | TB24- 3 | 40N | 111 | | | |
| B 405 | 16 | P33-X | 25N | TB24- 6 | 40N | 111 | | | |
| B 406 | 42 | P92-C | 25N | P82-U* | 25N | | | | |
| B 407 | 41 | TB20- 37AB | 16N | TB24- 9 | 20N | 111 | | | |
| B 408 | 46 | | 225 200 85 | | 400 370 48 52 846 | | | | |
| B 408B | 41 | TB19- 78 | 16N | SHLD B 408 | 25N | | | | |
| B 408L | | P36-D | 25N | TB19- 77CD | 16N | 107 | | | |
| B 408R | | P36-E | 25N | TB19- 77AB | 16N | 107 | | | |
| B 409 | 46 | | 225 200 85 | | 400 370 48 52 846 | | | | |
| B 409B | 41 | TB21- 76 | 16N | SHLD B 409 | 25N | | | | |
| B 409L | | P91-B* | 25N | TB21- 74 | 16N | 107 | | | |
| B 409R | | P91-B | 25N | TB21- 75 | 16N | 107 | | | |
| B 410 | 41 | P71-A | 25N | TB25- 7 | 20N | 111 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 51 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---------------------------------|--|--|----------------------|--|--|--|--|----------------------|--|--|--|--|--|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | | |
| NUMBER | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | |
| ITEM NO. | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | | |
| 1 | | | 2 | | | | | 3 | | | | | | |
| 4 | | | 5 | | | | | 6 | | | | | | |
| 7 | | | 8 | | | | | 9 | | | | | | |
| 10 | | | 11 | | | | | 12 | | | | | | |
| 13 | | | 14 | | | | | 15 | | | | | | |
| 16 | | | 17 | | | | | 18 | | | | | | |
| 19 | | | 20 | | | | | 21 | | | | | | |
| 22 | | | 23 | | | | | 24 | | | | | | |
| 25 | | | 26 | | | | | 27 | | | | | | |
| 28 | | | 29 | | | | | 30 | | | | | | |
| 31 | | | 32 | | | | | 33 | | | | | | |
| 34 | | | 35 | | | | | 36 | | | | | | |
| 37 | | | 38 | | | | | 39 | | | | | | |
| 40 | | | 41 | | | | | 42 | | | | | | |
| 43 | | | 44 | | | | | 45 | | | | | | |
| 46 | | | 47 | | | | | 48 | | | | | | |
| 49 | | | 50 | | | | | 51 | | | | | | |
| 52 | | | 53 | | | | | 54 | | | | | | |
| 55 | | | 56 | | | | | 57 | | | | | | |
| 58 | | | 59 | | | | | 60 | | | | | | |
| 61 | | | 62 | | | | | 63 | | | | | | |
| 64 | | | 65 | | | | | 66 | | | | | | |
| 67 | | | 68 | | | | | 69 | | | | | | |
| 70 | | | 71 | | | | | 72 | | | | | | |
| 73 | | | 74 | | | | | 75 | | | | | | |
| 76 | | | 77 | | | | | 78 | | | | | | |
| 79 | | | 80 | | | | | 81 | | | | | | |
| 82 | | | 83 | | | | | 84 | | | | | | |
| 85 | | | 86 | | | | | 87 | | | | | | |
| 88 | | | 89 | | | | | 90 | | | | | | |
| 91 | | | 92 | | | | | 93 | | | | | | |
| 94 | | | 95 | | | | | 96 | | | | | | |
| 97 | | | 98 | | | | | 99 | | | | | | |
| 100 | | | 101 | | | | | 102 | | | | | | |
| 103 | | | 104 | | | | | 105 | | | | | | |
| 106 | | | 107 | | | | | 108 | | | | | | |
| 109 | | | 110 | | | | | 111 | | | | | | |
| 112 | | | 113 | | | | | 114 | | | | | | |
| 115 | | | 116 | | | | | 117 | | | | | | |
| 118 | | | 119 | | | | | 120 | | | | | | |
| 121 | | | 122 | | | | | 123 | | | | | | |
| 124 | | | 125 | | | | | 126 | | | | | | |
| 127 | | | 128 | | | | | 129 | | | | | | |
| 130 | | | 131 | | | | | 132 | | | | | | |
| 133 | | | 134 | | | | | 135 | | | | | | |
| 136 | | | 137 | | | | | 138 | | | | | | |
| 139 | | | 140 | | | | | 141 | | | | | | |
| 142 | | | 143 | | | | | 144 | | | | | | |
| 145 | | | 146 | | | | | 147 | | | | | | |
| 148 | | | 149 | | | | | 150 | | | | | | |
| 151 | | | 152 | | | | | 153 | | | | | | |
| 154 | | | 155 | | | | | 156 | | | | | | |
| 157 | | | 158 | | | | | 159 | | | | | | |
| 160 | | | 161 | | | | | 162 | | | | | | |
| 163 | | | 164 | | | | | 165 | | | | | | |
| 166 | | | 167 | | | | | 168 | | | | | | |
| 169 | | | 170 | | | | | 171 | | | | | | |
| 172 | | | 173 | | | | | 174 | | | | | | |
| 175 | | | 176 | | | | | 177 | | | | | | |
| 178 | | | 179 | | | | | 180 | | | | | | |
| 181 | | | 182 | | | | | 183 | | | | | | |
| 184 | | | 185 | | | | | 186 | | | | | | |
| 187 | | | 188 | | | | | 189 | | | | | | |
| 190 | | | 191 | | | | | 192 | | | | | | |
| 193 | | | 194 | | | | | 195 | | | | | | |
| 196 | | | 197 | | | | | 198 | | | | | | |
| 199 | | | 200 | | | | | 201 | | | | | | |
| 202 | | | 203 | | | | | 204 | | | | | | |
| 205 | | | 206 | | | | | 207 | | | | | | |
| 208 | | | 209 | | | | | 210 | | | | | | |
| 211 | | | 212 | | | | | 213 | | | | | | |
| 214 | | | 215 | | | | | 216 | | | | | | |

| CONDUCTOR | | FROM | | TO | |
|-------------------|----|---|---------------|---|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 432 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 |
| B 432B | 41 | P16-C | 25N | SHLD B 432 | 25N |
| B 432E | | P68-H1 | 11N 89 | P16-B | 25N |
| B 432X | | P68-H2 | | SHLD B 432 | |
| B 433 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 |
| B 433B | 41 | P16-E | 25N | SHLD B 433 | 25N |
| B 433E | | P70-J1 | 11N 89 | P16-D | 25N |
| B 433X | | P70-J2 | | SHLD B 433 | |
| B 434 | 41 | E 61 | 25N | E 2 | 25N |
| B 436 | | DELETED | | | |
| B 436A | | DELETED | | | |
| B 436L | | DELETED | | | |
| B 436R | | DELETED | | | |
| B 437 | | DELETED | | | |
| B 437A | | DELETED | | | |
| B 437L | | DELETED | | | |
| B 437R | | DELETED | | | |
| B 438 | | DELETED | | | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 56 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|-------------------|----|---|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 438A | | DELETED | | | |
| B 438L | | DELETED | | | |
| B 438R | | DELETED | | | |
| B 439 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 439B | 41 | T821- 70 | 16N 107 | SHLD B 439 | 25N |
| B 439L | | P91-F* | 25N | T821- 69CD | 16N 107 |
| B 439R | | P91-F | 25N | T821- 69AB | 16N 107 |
| B 440 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 440B | 41 | T818- 99 | 16N 107 | SHLD B 440 | 25N |
| B 440L | | P91-D* | 25N | T818- 98CD | 16N 107 |
| B 440R | | P91-D | 25N | T818- 98AB | 16N 107 |
| B 441 | 46 | | 225 200 48 52 845 | | 225 200 85 7 |
| B 441A | 41 | SHLD B 441 | 25N | E 33 | 25N |
| B 441L | | P91-C* | 25N | P 1-C | 25N |
| B 441R | | P91-C | 25N | P 1-F | 25N |
| B 442 | 46 | | 225 200 48 52 845 | | 225 200 85 7 |
| B 442A | 41 | SHLD B 442 | 25N | E 33 | 25N |
| B 442L | | P91-E* | 25N | P 1-R | 25N |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 57 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|-------------------|----|---|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 442R | | P91-E | 25N | P 1-G | 25N |
| B 443 | 46 | | 225 200 48 52 845 | | 225 200 85 7 |
| B 443A | 41 | SHLD B 443 | 25N | E 33 | 25N |
| B 443L | | P91-G* | 25N | P 1-U | 25N |
| B 443R | | P91-G | 25N | P 1-K | 25N |
| B 444 | 46 | | 225 200 85 7 | | 400 370 48 52 845 |
| B 444B | 41 | T818- 78 | 16N 107 | SHLD B 444 | 25N |
| B 444L | | P82-D | 25N | T818- 76 | 16N 107 |
| B 444R | | P82-E | 25N | T818- 77 | 16N 107 |
| B 445 | 45 | | 225 200 84 | | 225 200 50 54 84 |
| B 445A | 41 | SHLD B445 | 25N | E32 | 25N |
| B 445L | | P35-B* | 25N | J22-Q* | 25N |
| B 445R | | P35-C* | 25N | J22-P* | 25N |
| B 446 | 45 | | 225 200 84 | | 400 370 50 54 846 |
| B 446B | 41 | T820- 75 | 16N 107 | SHLD B 446 | 25N |
| B 446L | | P35-Y | 25N | T820- 73CD | 16N 108 |
| B 446R | | P35-Z | 25N | T820- 74AB | 16N 108 |
| B 447 | 40 | P59-A | 25N | T825- 4 | 20N 111 |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 58 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|-------------------|----|---|-----|---|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| B 448 | 42 | P41-S* | 25N | J23-A | 25N |
| B 449 | 42 | P41-T* | 25N | J23-B | 25N |
| B 450 | 42 | P41-U* | 25N | J23-C | 25N |
| B 451 | 42 | P41-V* | 25N | J23-D | 25N |
| B 452 | 42 | P41-W* | 25N | J23-E | 25N |
| B 453 | 42 | P41-X* | 25N | J23-F | 25N |
| B 454 | 42 | P41-Y* | 25N | J23-G | 25N |
| B 455 | 42 | P41-Z* | 25N | J23-H | 25N |
| B 456 | 42 | P41-AA | 25N | J23-J | 25N |
| B 457 | 42 | P41-BB | 25N | J23-V | 25N |
| B 458 | 42 | P41-CC | 25N | J23-W | 25N |
| B 459 | 42 | P41-DD | 25N | J23-X | 25N |
| B 460 | 42 | P41-EE | 25N | J23-Y | 25N |
| B 461 | 42 | P41-FF | 25N | J23-Z | 25N |
| B 462 | 42 | P41-GG | 25N | J23-A* | 25N |
| B 463 | 42 | P41-HH | 25N | J23-B* | 25N |
| B 464 | 42 | P41-JJ | 25N | J23-C* | 25N |
| B 465 | 42 | P41-KK | 25N | J23-D* | 25N |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 59 OF 188 | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|--------------------|-----|-----|----|----|---|--|--|--|--|---|-----|-----|----|-----|--|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B 466 | 42 | P41-LL | 25N | | | | | | | | | J23-E* | 25N | | | | | | | | |
| B 467 | 42 | P41-MM | 25N | | | | | | | | | J23-O* | 25N | | | | | | | | |
| B 468 | 42 | P41-MN | 25N | | | | | | | | | J23-R* | 25N | | | | | | | | |
| B 469 | 42 | P41-PP | 25N | | | | | | | | | J23-S* | 25N | | | | | | | | |
| B 470 | 41 | P71-S* | 25N | | | | | | | | | TB 9- 4 | 20N | 111 | | | | | | | |
| B 471 | 65 | | 52 | 23 | 90 | 91 | 7 | | | | | 225 | 200 | 86 | 87 | 856 | | | | | |
| B 471B | 41 | TB20- 81CD | 16N | 107 | | | | | | | | SHLD B 471 | 25N | | | | | | | | |
| B 471E | | P66-C1 | 11N | 89 | | | | | | | | TB20- 68AB | 16N | 107 | | | | | | | |
| B 471M | | P66-C2 | | | | | | | | | | SHLD B 471 | | | | | | | | | |
| B 472 | 16 | TB23- 12 | 20N | 111 | | | | | | | | P31-M | 25N | | | | | | | | |
| B 473 | 46 | | 225 | 200 | 85 | | | | | | | 400 | 370 | 85 | | | | | | | |
| B 473B | 41 | TB19- 52 | 16N | | | | | | | | | SHLD B 473 | 25N | | | | | | | | |
| B 473L | | P35-E* | 25N | | | | | | | | | TB19- 51CD | 16N | 107 | | | | | | | |
| B 473R | | P35-F* | 25N | | | | | | | | | TB19- 51AB | 16N | 107 | | | | | | | |
| B 474 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 474B | 41 | E 40 | 25N | | | | | | | | | SHLD B 474 | 25N | | | | | | | | |
| B 474L | | P10-PP | 25N | | | | | | | | | J 3-B | 25N | | | | | | | | |
| B 474R | | P10-AA | 25N | | | | | | | | | J 3-A | 25N | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | A 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | REV LTR AR SHEET 60 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|--------------------|-----|-----|----|--|--|--|--|--|--|---|-----|----|----|-----|--|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B 475 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 475B | 41 | E 40 | 25N | | | | | | | | | SHLD B 475 | 25N | | | | | | | | |
| B 475L | | P10-A* | 25N | | | | | | | | | J 3-E | 25N | | | | | | | | |
| B 475R | | P10-A | 25N | | | | | | | | | J 3-D | 25N | | | | | | | | |
| B 476 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 476B | 41 | E 40 | 25N | | | | | | | | | SHLD B 476 | 25N | | | | | | | | |
| B 476L | | P85-V* | 25N | | | | | | | | | J 3-H | 25N | | | | | | | | |
| B 476R | | P85-U* | 25N | | | | | | | | | J 3-G | 25N | | | | | | | | |
| B 477 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 477B | 41 | E 40 | 25N | | | | | | | | | SHLD B 477 | 25N | | | | | | | | |
| B 477L | | P84-V* | 25N | | | | | | | | | J 3-L | 25N | | | | | | | | |
| B 477R | | P84-U* | 25N | | | | | | | | | J 3-K | 25N | | | | | | | | |
| B 478 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 478B | 41 | E 40 | 25N | | | | | | | | | SHLD B 478 | 25N | | | | | | | | |
| B 478L | | P 9-V* | 25N | | | | | | | | | J 3-P | 25N | | | | | | | | |
| B 478R | | P 9-U* | 25N | | | | | | | | | J 3-N | 25N | | | | | | | | |
| B 479 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 479B | 41 | E 40 | 25N | | | | | | | | | SHLD B 479 | 25N | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | A 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | REV LTR AR SHEET 61 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|----|--------------------|-----|-----|----|--|--|--|--|--|--|---|-----|-----|----|-----|--|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NO. | | NO. | | | | | | | | | | NO. | | | | | | | | | |
| B 479L | | P86-V* | 25N | | | | | | | | | J 3-T | 25N | | | | | | | | |
| B 479R | | P86-U* | 25N | | | | | | | | | J 3-S | 25N | | | | | | | | |
| B 480 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 480B | 41 | E 40 | 25N | | | | | | | | | SHLD B 480 | 25N | | | | | | | | |
| B 480L | | P83-Z* | 25N | | | | | | | | | J 3-Q* | 25N | | | | | | | | |
| B 480R | | P83-Y* | 25N | | | | | | | | | J 3-P* | 25N | | | | | | | | |
| B 481 | 46 | | 225 | 200 | 85 | | | | | | | 225 | 200 | 48 | 52 | 845 | | | | | |
| B 481B | 41 | E 40 | 25N | | | | | | | | | SHLD B 481 | 25N | | | | | | | | |
| B 481L | | P83-V* | 25N | | | | | | | | | J 3-T* | 25N | | | | | | | | |
| B 481R | | P83-U* | 25N | | | | | | | | | J 3-S* | 25N | | | | | | | | |
| B 482 | 41 | P64-FF | 25N | | | | | | | | | TB17- 2AB | 16N | 107 | | | | | | | |
| B 484 | 46 | | 225 | 200 | 85 | | | | | | | 400 | 370 | 48 | 52 | 845 | | | | | |
| B 484B | 41 | TB20- 21 | 16N | 107 | | | | | | | | SHLD B 484 | 25N | | | | | | | | |
| B 484L | | P19-C | 25N | | | | | | | | | TB20- 20CD | 16N | 107 | | | | | | | |
| B 484R | | P19-B | 25N | | | | | | | | | TB20- 20AB | 16N | 107 | | | | | | | |
| B 485 | 42 | P92-B | 25N | | | | | | | | | TB21- 77AB | 16N | 107 | | | | | | | |
| B 486 | 46 | | 225 | 200 | 85 | | | | | | | 400 | 370 | 48 | 52 | 845 | | | | | |
| B 486B | 41 | TB17- 50 | 16N | 107 | | | | | | | | SHLD B 486 | 25N | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | A 1900943 | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | REV LTR AR SHEET 62 OF 188 | | | | | | | | | |

GMI

WIRING HARNESS B

AR

1900943

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
|---|--|----------|--|----------------------|--|---------------|--|-----|--|-------------|--|----------|--|--|--|-----|--|----------------------|--|---------------|--|-----------------|--|----|--|----------|--|-------|--|-----|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | | | TERMINATION | | | | | | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | T | | M | | ITEM NO. | | SPEC. | | NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | T | | M | | ITEM NO. | | SPEC. | | NO. | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 486L | | | | P10-LL | | 25M | | | | | | | | | | | | TB17- 51CD | | 16M | | 107 | | | | | | | | | |
| B 486R | | | | P10-KK | | 25M | | | | | | | | | | | | TB17- 51AB | | 16M | | 107 | | | | | | | | | |
| B 487 | | 46 | | | | 225 | | 200 | | 85 | | | | 7 | | | | | | 400 | | 370 | | 48 | | 52 | | 846 | | | |
| B 487B | | 41 | | TB17- 53 | | 16M | | 107 | | | | | | | | | | SHLD B 487 | | 25M | | | | | | | | | | | |
| B 487L | | | | P10-MM | | 25M | | | | | | | | | | | | TB17- 52CD | | 16M | | 107 | | | | | | | | | |
| B 487R | | | | P10-MM | | 25M | | | | | | | | | | | | TB17- 52AB | | 16M | | 107 | | | | | | | | | |
| B 488 | | 46 | | | | 225 | | 200 | | 85 | | | | 7 | | | | | | 400 | | 370 | | 48 | | 52 | | 846 | | | |
| B 488B | | 41 | | TB17- 56 | | 16M | | 107 | | | | | | | | | | SHLD B 488 | | 25M | | | | | | | | | | | |
| B 488L | | | | P84-LL | | 25M | | | | | | | | | | | | TB17- 55CD | | 16M | | 107 | | | | | | | | | |
| B 488R | | | | P84-KK | | 25M | | | | | | | | | | | | TB17- 55AB | | 16M | | 107 | | | | | | | | | |
| B 489 | | 46 | | | | 225 | | 200 | | 85 | | | | 7 | | | | | | 400 | | 370 | | 48 | | 52 | | 846 | | | |
| B 489B | | 41 | | TB17- 56 | | 16M | | 107 | | | | | | | | | | SHLD B 489 | | 25M | | | | | | | | | | | |
| B 489L | | | | P 9-LL | | 25M | | | | | | | | | | | | TB17- 57CD | | 16M | | 107 | | | | | | | | | |
| B 489R | | | | P 9-KK | | 25M | | | | | | | | | | | | TB17- 57AB | | 16M | | 107 | | | | | | | | | |
| B 490 | | 46 | | | | 225 | | 200 | | 85 | | | | 7 | | | | | | 400 | | 370 | | 48 | | 52 | | 846 | | | |
| B 490B | | 41 | | TB17- 56 | | 16M | | 107 | | | | | | | | | | SHLD B 490 | | 25M | | | | | | | | | | | |
| B 490L | | | | P86-LL | | 25M | | | | | | | | | | | | TB17- 58CD | | 16M | | 107 | | | | | | | | | |
| B 490R | | | | P86-KK | | 25M | | | | | | | | | | | | TB17- 58AB | | 16M | | 107 | | | | | | | | | |
| | | | | | | | | | | | | | | MANNE SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE | | 1900943 | | | | | | | | | | | |
| 1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | | | |
| 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | SCALE - NONE | | | | REV LTR | | AR | | SHEET 63 OF 188 | | | | | | | | | |

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|--------------|----------------------|-------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| B 491 | | DELETE | | | |
| B 491A | | DELETE | | | |
| B 491B | | DELETE | | | |
| B 491E | | DELETE | | | |
| B 492 | 41 | P71-T* | 25N | TB23- 17 | 20N 111 |
| B 493 | 42 | P36-PP | 25N | TB21- 72 | 16N 107 |
| B 496 | 16 | P43-R | 25N | TB24- 5 | 20N 111 |
| B 499 | 16 | P43-S | 25N | TB24- 8 | 20N 111 |
| B 500 | 16 | P45-R | 25N | TB24- 2 | 20N 111 |
| B 501 | 16 | P45-S | 25N | TB24- 5 | 20N 111 |
| B 502 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 502B | 41 | E 30 | 25N | SHLD B 502 | 25N |
| B 502L | | P91-U* | 25N | P21-B | 16N 107 |
| B 502R | | P91-U | 25N | P21-A | 16N 107 |
| B 504 | 42 | P99-T | 25N | P24-V | 25N |
| B 505 | 42 | P99-N | 25N | P24-Y | 25N |
| B 506 | 42 | P34-D* | 25N | P24-A* | 25N |
| B 507 | | DELETE | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR AR SHEET 64 OF 188

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|--------------|----------------------|-------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| B 508 | 42 | P99-A* | 25N | P25-B* | 25N |
| B 509 | 41 | P34-J | 25N | P25-V | 25N |
| B 510 | 42 | P99-Q* | 25N | P24-R | 25N |
| B 511 | 42 | P99-W* | 25N | P24-P | 25N |
| B 512 | 42 | P99-AA | 25N | P24-KK | 25N |
| B 513 | 42 | P99-U* | 25N | TB 8- 6 | 20N 111 |
| B 514 | 42 | P99-G* | 25N | P24-D* | 25N |
| B 515 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 515B | 41 | TB17- 68 | 16N 107 | SHLD B 515 | 25N |
| B 515L | | P85-R* | 25N | TB17- 69CD | 16N 107 |
| B 515R | | P85-P* | 25N | TB17- 69AB | 16N 107 |
| B 516 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 516B | 41 | TB17- 59 | 16N 107 | SHLD B 516 | 25N |
| B 516L | | P85-NH | 25N | TB17- 60CD | 16N 107 |
| B 516R | | P85-NH | 25N | TB17- 60AB | 16N 107 |
| B 517 | 44 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 517B | 41 | E 41 | 25N | SHLD B 517 | 25N |
| B 517L | | P10-K* | 25N | J 4-B | 25N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR AR SHEET 65 OF 188

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|--------------|----------------------|-------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| B 517R | | P10-I* | 25N | J 4-A | 25N |
| B 518 | 44 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 518B | 41 | E 41 | 25N | SHLD B 518 | 25N |
| B 518L | | P10-Z | 25N | J 4-E | 25N |
| B 518R | | P10-Y | 25N | J 4-D | 25N |
| B 519 | 44 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 519B | 41 | E 41 | 25N | SHLD B 519 | 25N |
| B 519L | | P85-GG | 25N | J 4-H | 25N |
| B 519R | | P85-FF | 25N | J 4-G | 25N |
| B 520 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 520B | 41 | TB17- 62 | 16N 107 | SHLD B 520 | 25N |
| B 520L | | P84-NH | 25N | TB17- 61CD | 16N 107 |
| B 520R | | P84-NH | 25N | TB17- 61AB | 16N 107 |
| B 521 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 521B | 41 | TB17- 62 | 16N 107 | SHLD B 521 | 25N |
| B 521L | | P 9-NH | 25N | TB17- 63CD | 16N 107 |
| B 521R | | P 9-NH | 25N | TB17- 63AB | 16N 107 |
| B 522 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR AR SHEET 66 OF 188

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|--------------|----------------------|-------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| B 522B | 41 | TB17- 65 | 16N 107 | SHLD B 522 | 25N |
| B 522L | | P83-LL | 25N | TB17- 66CD | 16N 107 |
| B 522R | | P83-KK | 25N | TB17- 66AB | 16N 107 |
| B 523 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 523B | 41 | TB17- 68 | 16N 107 | SHLD B 523 | 25N |
| B 523L | | P83-NH | 25N | TB17- 67CD | 16N 107 |
| B 523R | | P83-NH | 25N | TB17- 67AB | 16N 107 |
| B 524 | 44 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 524B | 41 | TB17- 65 | 16N 107 | SHLD B 524 | 25N |
| B 524L | | P86-NH | 25N | TB17- 64CD | 16N 107 |
| B 524R | | P86-NH | 25N | TB17- 64AB | 16N 107 |
| B 525 | 44 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 525B | 41 | E 41 | 25N | SHLD B 525 | 25N |
| B 525L | | P84-GG | 25N | J 4-L | 25N |
| B 525R | | P84-FF | 25N | J 4-K | 25N |
| B 526 | 44 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 526B | 41 | E 41 | 25N | SHLD B 526 | 25N |
| B 526L | | P 9-GG | 25N | J 4-P | 25N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR AR SHEET 67 OF 188

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 549B | 41 | 16N | 107 | | | SHLD B 549 | 25N | | |
| B 549L | | P84-X* | 25N | | | TB18- 54CD | 16N | 107 | |
| B 549R | | P84-W* | 25N | | | TB18- 54AB | 16N | 107 | |
| B 550 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 550B | 41 | 16N | 107 | | | SHLD B 550 | 25N | | |
| B 550L | | P86-Z* | 25N | | | TB18- 60CD | 16N | 107 | |
| B 550R | | P86-Y* | 25N | | | TB18- 60AB | 16N | 107 | |
| B 551 | 14 | P33-A | 25N | | | TB25- 9 | 40N | 111 | |
| B 552 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 552B | 41 | TB17- 74 | 16N | 107 | | SHLD B 552 | 25N | | |
| B 552L | | P85-R | 25N | | | TB17- 73CD | 16N | 107 | |
| B 552R | | P85-P | 25N | | | TB17- 73AB | 16N | 107 | |
| B 553 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 553B | 41 | TB17- 71 | 16N | 107 | | SHLD B 553 | 25N | | |
| B 553L | | P85-X | 25N | | | TB17- 70CD | 16N | 107 | |
| B 553R | | P85-W | 25N | | | TB17- 70AB | 16N | 107 | |
| B 554 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 554B | 41 | TB17- 74 | 16N | 107 | | SHLD B 554 | 25N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 72 OF 188 | | | |

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 554L | | P84-N | 25N | | | TB17- 75CD | 16N | 107 | |
| B 554R | | P84-N | 25N | | | TB17- 75AB | 16N | 107 | |
| B 555 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 555B | 41 | TB17- 80 | 16N | 107 | | SHLD B 555 | 25N | | |
| B 555L | | P85-J* | 25N | | | TB17- 79CD | 16N | 107 | |
| B 555R | | P85-H* | 25N | | | TB17- 79AB | 16N | 107 | |
| B 556 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 556B | 41 | TB17- 77 | 16N | 107 | | SHLD B 556 | 25N | | |
| B 556L | | P 9-R | 25N | | | TB17- 76CD | 16N | 107 | |
| B 556R | | P 9-P | 25N | | | TB17- 76AB | 16N | 107 | |
| B 557 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 557B | 41 | TB20- 72 | 16N | 107 | | SHLD B 557 | 25N | | |
| B 557L | | P82-F | 25N | | | TB20- 70 | 16N | 107 | |
| B 557R | | P82-G | 25N | | | TB20- 71 | 16N | 107 | |
| B 558 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 558B | 41 | TB20- 80 | 16N | 107 | | SHLD B 558 | 25N | | |
| B 558L | | P82-B | 25N | | | TB20- 78 | 16N | 107 | |
| B 558R | | P82-C | 25N | | | TB20- 79 | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 73 OF 188 | | | |

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 559 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 559B | 41 | TB20- 21 | 16N | 107 | | SHLD B 559 | 25N | | |
| B 559L | | P 9-N | 25N | | | TB20- 20CD | 16N | 107 | |
| B 559R | | P 9-M | 25N | | | TB20- 20AB | 16N | 107 | |
| B 560 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 560B | 41 | TB18- 64 | 16N | 107 | | SHLD B 560 | 25N | | |
| B 560L | | P10-JJ | 25N | | | TB18- 65CD | 16N | 107 | |
| B 560R | | P10-MM | 25N | | | TB18- 65AB | 16N | 107 | |
| B 561 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 561B | 41 | TB18- 67 | 16N | 107 | | SHLD B 561 | 25N | | |
| B 561L | | P10-GG | 25N | | | TB18- 68CD | 16N | 107 | |
| B 561R | | P10-FF | 25N | | | TB18- 68AB | 16N | 107 | |
| B 562 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 562B | 41 | TB18- 67 | 16N | 107 | | SHLD B 562 | 25N | | |
| B 562L | | P85-X* | 25N | | | TB18- 66CD | 16N | 107 | |
| B 562R | | P85-W* | 25N | | | TB18- 66AB | 16N | 107 | |
| B 563 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 563B | 41 | TB18- 70 | 16N | 107 | | SHLD B 563 | 25N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 74 OF 188 | | | |

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 563L | | P84-Z* | 25N | | | TB18- 69CD | 16N | 107 | |
| B 563R | | P84-Y* | 25N | | | TB18- 69AB | 16N | 107 | |
| B 564 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 564B | 41 | TB18- 64 | 16N | 107 | | SHLD B 564 | 25N | | |
| B 564L | | P 9-X* | 25N | | | TB18- 63CD | 16N | 107 | |
| B 564R | | P 9-W* | 25N | | | TB18- 63AB | 16N | 107 | |
| B 565 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 565B | 41 | TB18- 58 | 16N | 107 | | SHLD B 565 | 25N | | |
| B 565L | | P 9-Z* | 25N | | | TB18- 59CD | 16N | 107 | |
| B 565R | | P 9-Y* | 25N | | | TB18- 59AB | 16N | 107 | |
| B 566 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 566B | 41 | TB18- 61 | 16N | 107 | | SHLD B 566 | 25N | | |
| B 566L | | P86-X* | 25N | | | TB18- 62CD | 16N | 107 | |
| B 566R | | P86-W* | 25N | | | TB18- 62AB | 16N | 107 | |
| B 567 | 40 | P38-A | 25N | | | TB25- 6 | 20N | 111 | |
| B 569 | 46 | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 569B | 41 | TB20- 6 | 16N | 107 | | SHLD B 569 | 25N | | |
| B 569L | | P91-H* | 25N | | | TB20- 8CD | 16N | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 75 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 569R | | P91-M | 25N | | | TB20- 8AB | 16N | 107 | |
| B 570 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 570B | 41 | TB21- 6 | 16N | 107 | | SHLD B 570 | 25N | | |
| B 570L | | P91-M* | 25N | | | TB21- 7CD | 16N | 107 | |
| B 570R | | P91-M | 25N | | | TB21- 7AB | 16N | 107 | |
| B 571 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 571B | 41 | TB21- 9 | 16N | 107 | | SHLD B 571 | 25N | | |
| B 571L | | P91-P* | 25N | | | TB21- 8CD | 16N | 107 | |
| B 571R | | P91-P | 25N | | | TB21- 8AB | 16N | 107 | |
| B 572 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 572B | 41 | TB19- 7 | 16N | 107 | | SHLD B 572 | 25N | | |
| B 572L | | P65-E* | 25N | | | TB19- 6CD | 16N | 107 | |
| B 572R | | P65-E | 25N | | | TB19- 6AB | 16N | 107 | |
| B 573 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 573B | 41 | TB19- 27 | 16N | 107 | | SHLD B 573 | 25N | | |
| B 573L | | P65-D* | 25N | | | TB19- 28CD | 16N | 107 | |
| B 573R | | P65-D | 25N | | | TB19- 28AB | 16N | 107 | |
| B 574 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE - NONE | REV LTR | AR | SHEET 76 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 574B | 41 | TB17- 83 | 16N | 107 | | SHLD B 574 | 25N | | |
| B 574L | | P10-E* | 25N | | | TB17- 84CD | 16N | 107 | |
| B 574R | | P10-D* | 25N | | | TB17- 84AB | 16N | 107 | |
| B 575 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 575B | 41 | TB17- 86 | 16N | 107 | | SHLD B 575 | 25N | | |
| B 575L | | P10-G* | 25N | | | TB17- 85CD | 16N | 107 | |
| B 575R | | P10-F* | 25N | | | TB17- 85AB | 16N | 107 | |
| B 576 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 576B | 41 | TB17- 83 | 16N | 107 | | SHLD B 576 | 25N | | |
| B 576L | | P10-J* | 25N | | | TB17- 82CD | 16N | 107 | |
| B 576R | | P10-H* | 25N | | | TB17- 82AB | 16N | 107 | |
| B 577 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 577B | 41 | TB17- 80 | 16N | 107 | | SHLD B 577 | 25N | | |
| B 577L | | P 9-J* | 25N | | | TB17- 81CD | 16N | 107 | |
| B 577R | | P 9-H* | 25N | | | TB17- 81AB | 16N | 107 | |
| B 578 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 578B | 41 | TB17- 88 | 16N | 107 | | SHLD B 578 | 25N | | |
| B 578L | | P83-T* | 25N | | | TB17- 89CD | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE - NONE | REV LTR | AR | SHEET 77 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 578R | | P83-S* | 25N | | | TB17- 89AB | 16N | 107 | |
| B 579 | 44 | P18-A | 25N | | | TB25- 1 | 20N | 111 | |
| B 580 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 580B | 41 | TB20- 36 | 16N | 107 | | SHLD B 580 | 25N | | |
| B 580L | | P85-CC | 25N | | | TB20- 37CD | 16N | 107 | |
| B 580R | | P85-BB | 25N | | | TB20- 37AB | 16N | 107 | |
| B 581 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 581B | 41 | TB20- 39 | 16N | 107 | | SHLD B 581 | 25N | | |
| B 581L | | P84-CC | 25N | | | TB20- 38CD | 16N | 107 | |
| B 581R | | P84-BB | 25N | | | TB20- 38AB | 16N | 107 | |
| B 582 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 582B | 41 | TB20- 36 | 16N | 107 | | SHLD B 582 | 25N | | |
| B 582L | | P83-CC | 25N | | | TB20- 35CD | 16N | 107 | |
| B 582R | | P83-BB | 25N | | | TB20- 35AB | 16N | 107 | |
| B 583 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 583B | 41 | TB19- 36 | 16N | 107 | | SHLD B 583 | 25N | | |
| B 583L | | P86-G* | 25N | | | TB19- 40CD | 16N | 107 | |
| B 583R | | P86-F* | 25N | | | TB19- 51AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE - NONE | REV LTR | AR | SHEET 78 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|-------------|-----|--|---------------|-------------|-----------------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 584 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 584B | 41 | TB20- 15 | 16N | 107 | | SHLD B 584 | 25N | | |
| B 584L | | P35-M | 25N | | | TB20- 20CD | 16N | 107 | |
| B 584R | | P35-N | 25N | | | TB20- 20AB | 16N | 107 | |
| B 585 | 42 | P64-CC | 25N | | | TB20- 14AB | 16N | 107 | |
| B 586 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 586B | 41 | TB18- 75 | 16N | 107 | | SHLD B 586 | 25N | | |
| B 586L | | P 9-JJ | 25N | | | TB18- 74CD | 16N | 107 | |
| B 586R | | P 9-HH | 25N | | | TB18- 74AB | 16N | 107 | |
| B 587 | 44 | | 225 200 85 | 7 | | 400 | 370 48 52 846 | | |
| B 587B | 41 | TB18- 78 | 16N | 107 | | SHLD B 587 | 25N | | |
| B 587L | | P86-JJ | 25N | | | TB18- 76 | 16N | 107 | |
| B 587R | | P86-HH | 25N | | | TB18- 77 | 16N | 107 | |
| B 588 | 42 | P34-T | 25N | | | TB17- 2AB | 16N | 107 | |
| B 589 | 65 | | 225 200 86 87 856 | | | 225 200 86 87 856 | | | |
| B 589A | 41 | SHLD B 589 | 25N | | | TB27- 68 | 16N | 107 | |
| B 589B | 41 | P14-G | 25N | | | SHLD B 589 | 25N | | |
| B 589E | | TB27- 58 | 16N | 107 | | P14-F | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE - NONE | REV LTR | AR | SHEET 79 OF 188 |

| CONDUCTOR | | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|--------------------|----------|-----|---------------------|--------------------|------------|-----|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | TERMINATION SPEC. | ITEM NO. | NO. | STEP WIRE OR JACKET | TERMINATION SPEC. | ITEM NO. | NO. | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| B 590 | 65 | | 225 | 200 | 86 | 87 | 856 | | | |
| B 590A | 41 | SHLD B 590 | 25N | | | | | TB27- 6C | 16N | |
| B 590B | 41 | P14-C* | 25N | | | | | SHLD B 590 | 25N | |
| B 590E | | TB27- 5C | 16N | 107 | | | | P14-D* | 25N | |
| B 591 | 42 | P40-N | 25N | | | | | P65-AA | 25N | |
| B 592 | 42 | P40-P | 25N | | | | | P65-BB | 25N | |
| B 594 | 42 | P40-S | 25N | | | | | P63-A* | 25N | |
| B 595 | 42 | P40-T | 25N | | | | | P63-B* | 25N | |
| B 596 | 42 | P40-U | 25N | | | | | P63-C* | 25N | |
| B 597 | 42 | P40-V | 25N | | | | | P63-D* | 25N | |
| B 598 | 42 | P40-W | 25N | | | | | P63-E* | 25N | |
| B 599 | 42 | P40-X | 25N | | | | | P63-F* | 25N | |
| B 600 | 42 | P40-Y | 25N | | | | | P63-G* | 25N | |
| B 601 | 42 | P40-Z | 25N | | | | | P63-H* | 25N | |
| B 602 | 42 | P40-A* | 25N | | | | | P63-I* | 25N | |
| B 603 | 42 | P40-C* | 25N | | | | | P63-Z | 25N | |
| B 604 | 42 | P40-D* | 25N | | | | | P63-Y | 25N | |
| B 605 | 42 | P40-E* | 25N | | | | | P63-X | 25N | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION, SPEC. 1 | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | | | |
| STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | | |
| NUMBER | NO. | CIRCUIT POINT | NO. | NUMBER | NO. | CIRCUIT POINT | NO. | NUMBER | NO. | | |
| B 606 | 42 | P40-F* | 25N | | | P63-W | 25N | | | | |
| B 607 | 42 | P40-G* | 25N | | | P63-V | 25N | | | | |
| B 608 | 42 | P40-H* | 25N | | | P63-U | 25N | | | | |
| B 609 | 42 | P40-I* | 25N | | | P63-T | 25N | | | | |
| B 610 | 42 | P40-J* | 25N | | | P63-S | 25N | | | | |
| B 611 | 42 | P40-K* | 25N | | | P63-R | 25N | | | | |
| B 612 | 42 | P40-M* | 25N | | | P65-CC | 25N | | | | |
| B 613 | 42 | P39-A | 25N | | | P64-B | 25N | | | | |
| B 614 | 42 | P39-B | 25N | | | P64-C | 25N | | | | |
| B 615 | 42 | P39-S | 25N | | | P64-U | 25N | | | | |
| B 616 | 42 | P39-T | 25N | | | P64-V | 25N | | | | |
| B 617 | 42 | P39-C | 25N | | | P64-N | 25N | | | | |
| B 618 | 42 | P39-D | 25N | | | P64-D | 25N | | | | |
| B 619 | 42 | P39-E | 25N | | | P64-E | 25N | | | | |
| B 620 | 42 | P39-F | 25N | | | P64-F | 25N | | | | |
| B 621 | 42 | P39-G | 25N | | | P64-G | 25N | | | | |
| B 622 | 42 | P39-H | 25N | | | P64-H | 25N | | | | |
| B 623 | 42 | P39-J | 25N | | | P64-J | 25N | | | | |

➤ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

➤ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|---------------|-------------------|-----|---------------------|---------------|-------------------|-----|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | |
| B 624 | 42 | P39-K | 25N | | | P64-K | 25N | | | | |
| B 625 | 42 | P39-L | 25N | | | P64-L | 25N | | | | |
| B 626 | 42 | P39-M | 25N | | | P64-M | 25N | | | | |
| B 627 | 42 | P39-N | 25N | | | P64-N | 25N | | | | |
| B 628 | 42 | P39-P | 25N | | | P64-W | 25N | | | | |
| B 629 | 42 | P39-R | 25N | | | P64-X | 25N | | | | |
| B 630 | 42 | P39-U | 25N | | | P64-H* | 25N | | | | |
| B 631 | 42 | P39-V | 25N | | | P64-Y | 25N | | | | |
| B 632 | 42 | P39-W | 25N | | | P64-Z | 25N | | | | |
| B 633 | 42 | P39-X | 25N | | | P64-A* | 25N | | | | |
| B 634 | 42 | P39-Y | 25N | | | P64-B* | 25N | | | | |
| B 635 | 42 | P39-Z | 25N | | | P64-C* | 25N | | | | |
| B 636 | 42 | P39-A* | 25N | | | P64-D* | 25N | | | | |
| B 637 | 42 | P39-B* | 25N | | | P64-E* | 25N | | | | |
| B 638 | 42 | P39-C* | 25N | | | P64-F* | 25N | | | | |
| B 639 | 42 | P39-D* | 25N | | | P64-G* | 25N | | | | |
| B 640 | 42 | P39-E* | 25N | | | P64-I* | 25N | | | | |
| B 641 | 42 | P39-F* | 25N | | | P64-U* | 25N | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|------------------------------------|------------------|------------------|-----|------------------------------------|------------------|--------------------|-----|------------------|----|-----|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC | ITEM NO. | NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC | ITEM NO. | NO. | | | | |
| B 642 | 42 | P39-G* | 25N | | | P64-T* | 25N | | | | | | |
| B 643 | 42 | P39-H* | 25N | | | P64-S* | 25N | | | | | | |
| B 644 | 42 | P39-I* | 25N | | | P64-R* | 25N | | | | | | |
| B 645 | 42 | P39-J* | 25N | | | P64-Q* | 25N | | | | | | |
| B 646 | 42 | P39-K* | 25N | | | P64-P* | 25N | | | | | | |
| B 647 | 42 | P39-M* | 25N | | | P64-N* | 25N | | | | | | |
| B 648 | 42 | P39-N* | 25N | | | P64-M* | 25N | | | | | | |
| B 651 | 42 | P40-T* | 25N | | | P64-R | 25N | | | | | | |
| B 652 | 16 | P38-F | 25N | | | P63-X* | 25N | | | | | | |
| B 653 | 16 | P38-G | 25N | | | P63-Y* | 25N | | | | | | |
| B 654 | 16 | P38-H | 25N | | | P63-W* | 25N | | | | | | |
| B 655 | 46 | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 | 846 | |
| B 655B | 41 | TB17- 91 | 16N | | 107 | | SHLD B 655 | 25N | | | | | |
| B 655L | | P83-G* | 25N | | | | TB17- 90CD | 16N | | 107 | | | |
| B 655R | | P83-F* | 25N | | | | TB17- 90AB | 16N | | 107 | | | |
| B 656 | 46 | | 225 | 200 | 85 | 7 | | 400 | 370 | 48 | 52 | 846 | |
| B 656B | 41 | TB17- 91 | 16N | | 107 | | SHLD B 656 | 25N | | | | | |
| B 656L | | P86-T* | 25N | | | | TB17- 92CD | 16N | | 107 | | | |

➤ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

➤ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| GMI | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | | | | | | | | | | | | FROM | | | | | | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | SPEC. | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | SPEC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 656R | | | | | | | | | | | | | | | P86-S* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | TB17- 92AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 657 | | | | | | | | | | | | | | | 40 | | | | | | | | | | | | | | | P 2-A | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | TB25- 3 | | | | | | | | | | | | | | | 20N | | | | | | | | | | | | | | | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 658 | | | | | | | | | | | | | | | 40 | | | | | | | | | | | | | | | P50-A | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | TB25- 3 | | | | | | | | | | | | | | | 20N | | | | | | | | | | | | | | | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 659 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P36-CC | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | P25-A* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 660 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P36-Z* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | P24-T* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 661 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P36-H* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | P24-I* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 662 | | | | | | | | | | | | | | | 178 | | | | | | | | | | | | | | | TB25- 14 | | | | | | | | | | | | | | | 40N | | | | | | | | | | | | | | | 179 | | | | | | | | | | | | | | | E 1 | | | | | | | | | | | | | | | 40N | | | | | | | | | | | | | | | 179 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 663 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 663B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB18- 81 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 663 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 663L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P85-T* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 82CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 663R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P85-S* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 82AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 664 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | |
| B 664B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB18- 84 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 664 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 664L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-R* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 85CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 664R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-P* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 85AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 665 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | |
| B 665B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB18- 87 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 665 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 665L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-T* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 86CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | | | | | SIZE | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | | | | REV LTR | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | SHEET 84 OF 188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GMI | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CONDUCTOR | | | | | | | | | | | | | | | FROM | | | | | | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | SPEC. | | | | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | SPEC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 665R | | | | | | | | | | | | | | | P10-S* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | TB18- 86AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 666 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 666B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB18- 84 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 666 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 666L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P84-R* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 83CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 666R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P84-P* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 83AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 667 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 667B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB18- 90 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 667 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 667L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P83-C* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 89CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 667R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P83-B* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 89AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 668 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 668B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB18- 87 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 668 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 668L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P83-N* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 88CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 668R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P83-N* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB18- 88AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 669 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 845 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 669A | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | SHLD B 669 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | E 38 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 669L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P65-K* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P46-C | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 669R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P65-K | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P46-B | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 670 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P63-AA | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P47-U | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>1</div> THE STD CONDUCTOR TERMINATION FIGURES ARE PER <div>2</div> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE | | | | | | | | | | | | | | | SIZE | | | | | | | | | | | | | | | 1900943 SHEET 85 OF 188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | REV LTR AR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GMI | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CONDUCTOR | | | | | | | | | | | | | | | FROM | | | | | | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 671 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P63-Z* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P47-Y | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 672 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P63-BB | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P47-T | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 673 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-V | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-Z* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 674 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-U | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-Y* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 675 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-T | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-X* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 676 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-R | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-BB | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 677 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-S | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-AA | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 678 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P96-A* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-W* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 679 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P96-B* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-V* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 680 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P96-C* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-U* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 681 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-D | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-G* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 682 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P92-X | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P24-JJ | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 683 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P34-B* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 40AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 684 | | | | | | | | | | | | | | | 42 | | | | | | | | | | | | | | | P34-C* | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 40CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 685 | | | | | | | | | | | | | | | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 23 90 91 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 86 87 856 | | | | | | | | | | | | | | |
| B 685B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB22- 37CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | SHLD B 685 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 685E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P66-G1 | | | | | | | | | | | | | | | 11N | | | | | | | | | | | | | | | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB22- 37AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | |
| B 685X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P66-G2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | SHLD B 685 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV LTR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SHEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 86 OF 188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GMI | | | | | | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | | | | | | | | | | | | FROM | | | | | | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 686 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 686B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB20- 49 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 686 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 686L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-L | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 50CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 686R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-K | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 50AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 687 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 687B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB20- 52 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 687 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 687L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-X | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 53CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 687R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P10-W | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 53AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 688 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 688B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB20- 55 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 688 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 688L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P85-L | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 56CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 688R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P85-K | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 56AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 692 | | | | | | | | | | | | | | | 46 | | | | | | | | | | | | | | | 225 | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | 85 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 400 | | | | | | | | | | | | | | | 370 | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 692B | | | | | | | | | | | | | | | 41 | | | | | | | | | | | | | | | TB20- 58 | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | SHLD B 692 | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 692L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P86-X | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 59CD | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 692R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | P86-W | | | | | | | | | | | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB20- 59AB | | | | | | | | | | | | | | | 16N | | | | | | | | | | | | | | | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 693 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 693B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | | | 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | | | | | SCALE - NONE | | | | | | | | | | | | | | | REV LTR | | | | | | | | | | | | | | | AR | | | | | | | | | | | | | | | SHEET 87 OF 188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| CONDUCTOR | | FROM | | TO | |
|--|----|---|---------------|----------------------------|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| B 693L | | DELETED | | | |
| B 693R | | DELETED | | | |
| B 694 | | DELETED | | | |
| B 694B | | DELETED | | | |
| B 694L | | DELETED | | | |
| B 694R | | DELETED | | | |
| B 695 | | DELETED | | | |
| B 695B | | DELETED | | | |
| B 695L | | DELETED | | | |
| B 695R | | DELETED | | | |
| B 696 | 65 | | 52 23 90 91 7 | | 225 200 86 87 856 |
| B 696B | 41 | P26-S | 25M | SHLD B 696 | 25M |
| B 696E | | P93-F1 | 11M 89 | P26-R | 25M |
| B 696X | | P93-F2 | | SHLD B 696 | |
| B 697 | 65 | | 50 31 7 | | 52 23 90 91 7 |
| B 697E | | P56-H | 11M | P62-H1 | 11M 89 |
| B 697X | | P56-L | | P62-H2 | |
| B 698 | 65 | | 50 31 7 | | 52 23 90 91 7 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR AR SHEET 88 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|--|----|---|--------------|----------------------------|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| B 698E | | P55-H | 11M | P62-J1 | 11M 89 |
| B 698X | | P55-L | | P62-J2 | |
| B 700B | 41 | TB22- 21 | 16M 107 | SHLD B 700 | 25M |
| B 700L | | P85-T | 25M | TB22- 22CD | 16M 107 |
| B 700R | | P85-S | 25M | TB22- 22AB | 16M 107 |
| B 701 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 701B | 41 | TB18- 96 | 16M 107 | SHLD B 701 | 25M |
| B 701L | | P85-N* | 25M | TB18- 95CD | 16M 107 |
| B 701R | | P85-M* | 25M | TB18- 95AB | 16M 107 |
| B 702 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 702B | 41 | TB22- 21 | 16M 107 | SHLD B 702 | 25M |
| B 702L | | P84-T | 25M | TB22- 20CD | 16M 107 |
| B 702R | | P84-S | 25M | TB22- 20AB | 16M 107 |
| B 703 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 703B | 41 | TB18- 93 | 16M 107 | SHLD B 703 | 25M |
| B 703L | | P84-N* | 25M | TB18- 94CD | 16M 107 |
| B 703R | | P84-M* | 25M | TB18- 94AB | 16M 107 |
| B 704 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR AR SHEET 89 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|--|----|---|--------------|----------------------------|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| B 704B | 41 | TB22- 30 | 16M 107 | SHLD B 704 | 25M |
| B 704L | | P84-G | 25M | TB22- 29CD | 16M 107 |
| B 704R | | P84-F | 25M | TB22- 29AB | 16M 107 |
| B 705 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 705B | 41 | TB22- 24 | 16M 107 | SHLD B 705 | 25M |
| B 705L | | P 9-V | 25M | TB22- 25CD | 16M 107 |
| B 705R | | P 9-U | 25M | TB22- 25AB | 16M 107 |
| B 706 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 706B | 41 | TB18- 93 | 16M 107 | SHLD B 706 | 25M |
| B 706L | | P 9-N* | 25M | TB18- 92CD | 16M 107 |
| B 706R | | P 9-M* | 25M | TB18- 92AB | 16M 107 |
| B 707 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 707B | 41 | TB22- 27 | 16M 107 | SHLD B 707 | 25M |
| B 707L | | P 9-G | 25M | TB22- 28CD | 16M 107 |
| B 707R | | P 9-F | 25M | TB22- 28AB | 16M 107 |
| B 708 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 708B | 41 | TB22- 27 | 16M 107 | SHLD B 708 | 25M |
| B 708L | | P86-G | 25M | TB22- 26CD | 16M 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR AR SHEET 90 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|--|----|---|-------------------|----------------------------|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| B 708R | | P86-F | 25M | TB22- 26AB | 16M 107 |
| B 709 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 709B | 41 | TB22- 24 | 16M 107 | SHLD B 709 | 25M |
| B 709L | | P86-V | 25M | TB22- 25CD | 16M 107 |
| B 709R | | P86-U | 25M | TB22- 23AB | 16M 107 |
| B 710 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B 710B | 41 | TB18- 90 | 16M 107 | SHLD B 710 | 25M |
| B 710L | | P86-N* | 25M | TB18- 91CD | 16M 107 |
| B 710R | | P86-M* | 25M | TB18- 91AB | 16M 107 |
| B 711 | 65 | | 52 23 90 91 7 | | 52 23 90 91 7 |
| B 711E | | P93-B1 | 11M 89 | P 7-DOH | 11M 89 |
| B 711X | | P93-B2 | | P 7-DOL | |
| B 712 | 42 | P64-GG | 25M | P 5-K* | 25M |
| B 713 | 65 | | 225 200 86 87 856 | | 52 23 90 91 7 |
| B 713A | 41 | SHLD B 713 | 25M | P63-CC | 25M |
| B 713E | | P63-DD | 25M | P 7-FOH | 11M 89 |
| B 713X | | SHLD B 713 | | P 7-FOL | |
| B 714 | 65 | | 52 23 90 91 7 | | 52 23 90 91 7 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR AR SHEET 91 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|-------------|-----------------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 714E | | P69-A1 | 11M | 89 | | P 7-AOH | 11M | 89 | |
| B 714X | | P69-A2 | | | | P 7-AOL | | | |
| B 715 65 | | | 52 | 23 90 91 | 7 | | 52 | 23 90 91 | 7 |
| B 715E | | P93-A1 | 11M | 89 | | P 7-BOH | 11M | 89 | |
| B 715X | | P93-A2 | | | | P 7-BOL | | | |
| B 716 42 | | P64-V* | 25M | | | P 5-FF | 25M | | |
| B 717 42 | | P64-W* | 25M | | | P 5-CC | 25M | | |
| B 718 42 | | P64-X* | 25M | | | P 5-DD | 25M | | |
| B 719 42 | | P64-Y* | 25M | | | P 5-W* | 25M | | |
| B 720 42 | | P64-Z* | 25M | | | P 5-Y* | 25M | | |
| B 721 42 | | P64-AA | 25M | | | P 5-AA | 25M | | |
| B 722 42 | | P36-FF | 25M | | | TB20- 8AB | 16M | 107 | |
| B 723 42 | | P36-KK | 25M | | | TB21- 8AB | 16M | 107 | |
| B 724 42 | | P36-MM | 25M | | | TB21- 7AB | 16M | 107 | |
| B 725 41 | | P82-P | 25M | | | J 3-M* | 25M | | |
| B 726 41 | | P82-R | 25M | | | J 3-Z* | 25M | | |
| B 727 41 | | P82-S | 25M | | | J 3-Y* | 25M | | |
| B 728 41 | | P82-T | 25M | | | J 3-X* | 25M | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 92 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|---------------|-----------------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 729 41 | | P82-U | 25M | | | J 3-J* | 25M | | |
| B 730 41 | | P82-V | 25M | | | J 3-I* | 25M | | |
| B 731 41 | | P82-W | 25M | | | J 3-H* | 25M | | |
| B 732 41 | | P82-X | 25M | | | J 3-G* | 25M | | |
| B 734 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 734B 41 | | TB20- 67 | 16M | 107 | | SHLD B 734 | 25M | | |
| B 734L | | P85-V | 25M | | | TB20- 66CD | 16M | 107 | |
| B 734R | | P85-U | 25M | | | TB20- 66AB | 16M | 107 | |
| B 735 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 735B 41 | | TB20- 64 | 16M | 107 | | SHLD B 735 | 25M | | |
| B 735L | | P84-X | 25M | | | TB20- 65CD | 16M | 107 | |
| B 735R | | P84-W | 25M | | | TB20- 65AB | 16M | 107 | |
| B 736 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 736B 41 | | TB20- 61 | 16M | 107 | | SHLD B 736 | 25M | | |
| B 736L | | P 9-X | 25M | | | TB20- 62CD | 16M | 107 | |
| B 736R | | P 9-W | 25M | | | TB20- 62AB | 16M | 107 | |
| B 737 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 737B 41 | | TB20- 61 | 16M | 107 | | SHLD B 737 | 25M | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 93 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|---------------|-----------------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 737L | | P83-X | 25M | | | TB20- 60CD | 16M | 107 | |
| B 737R | | P83-W | 25M | | | TB20- 60AB | 16M | 107 | |
| B 738 41 | | TB23- 10 | 20M | 111 | | P16-T* | 25M | | |
| B 739 41 | | TB23- 10 | 20M | 111 | | P15-T* | 25M | | |
| B 740 41 | | TB23- 10 | 20M | 111 | | P14-T* | 25M | | |
| B 741 41 | | TB23- 11 | 20M | 111 | | P17-T* | 25M | | |
| B 742 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 742B 41 | | TB19- 82 | 16M | 107 | | SHLD B 742 | 25M | | |
| B 742L | | P85-N | 25M | | | TB19- 83CD | 16M | 107 | |
| B 742R | | P85-M | 25M | | | TB19- 83AB | 16M | 107 | |
| B 743 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 743B 41 | | TB19- 85 | 16M | 107 | | SHLD B 743 | 25M | | |
| B 743L | | P85-E* | 25M | | | TB19- 86CD | 16M | 107 | |
| B 743R | | P85-D* | 25M | | | TB19- 86AB | 16M | 107 | |
| B 744 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 744B 41 | | TB19- 88 | 16M | 107 | | SHLD B 744 | 25M | | |
| B 744L | | P85-G* | 25M | | | TB19- 87CD | 16M | 107 | |
| B 744R | | P85-F* | 25M | | | TB19- 87AB | 16M | 107 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 94 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|---------------|-----------------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 746 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 746B 41 | | TB19- 85 | 16M | 107 | | SHLD B 746 | 25M | | |
| B 746L | | P 9-R* | 25M | | | TB19- 84CD | 16M | 107 | |
| B 746R | | P 9-P* | 25M | | | TB19- 84AB | 16M | 107 | |
| B 747 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 747B 41 | | TB19- 88 | 16M | 107 | | SHLD B 747 | 25M | | |
| B 747L | | P83-EE | 25M | | | TB19- 89CD | 16M | 107 | |
| B 747R | | P83-DD | 25M | | | TB19- 89AB | 16M | 107 | |
| B 748 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 748B 41 | | TB22- 30 | 16M | 107 | | SHLD B 748 | 25M | | |
| B 748L | | P84-C | 25M | | | TB22- 31CD | 16M | 107 | |
| B 748R | | P84-B | 25M | | | TB22- 31AB | 16M | 107 | |
| B 749 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 749B 41 | | TB22- 33 | 16M | 107 | | SHLD B 749 | 25M | | |
| B 749L | | P 9-C | 25M | | | TB22- 32CD | 16M | 107 | |
| B 749R | | P 9-B | 25M | | | TB22- 32AB | 16M | 107 | |
| B 750 46 | | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 750B 41 | | TB22- 33 | 16M | 107 | | SHLD B 750 | 25M | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| | | | | | | SCALE-NONE | REV LTR | AR | SHEET 95 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|-----|---|----------------------|---------------|--------|----------------------|---------------|-----|---|-----|---|----------------------|---------------|-----|
| CONDUCTOR | | | FROM | | | TO | | | CONDUCTOR | | | FROM | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | |
| ITEM NO. | | | TERMINATION SPEC. | | | TERMINATION SPEC. | | | ITEM NO. | | | TERMINATION SPEC. | | |
| NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 |
| B 750L | | | P86-C | 25N | | TB22- 34CD | 16N | 107 | | | | TB22- 34AB | 16N | 107 |
| B 750R | | | P86-B | 25N | | | | | | | | | | |
| B 751 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 751B | 41 | | TB22- 39 | 16N | 107 | | SHLD B 751 | 25N | | | | | | |
| B 751L | | | P86-J | 25N | | TB22- 38CD | 16N | 107 | | | | | | |
| B 751R | | | P86-H | 25N | | TB22- 38AB | 16N | 107 | | | | | | |
| B 753 | 42 | | P96-Y | 25N | | TB21- 5CD | 16N | 107 | | | | | | |
| B 754 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 754B | 41 | | TB21- 49 | 16N | 107 | | SHLD B 754 | 25N | | | | | | |
| B 754L | | | P84-C* | 25N | | TB21- 50 | 16N | 107 | | | | | | |
| B 754R | | | P84-B* | 25N | | TB21- 51 | 16N | 107 | | | | | | |
| B 755 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 755B | 41 | | TB21- 55 | 16N | 107 | | SHLD B 755 | 25N | | | | | | |
| B 755L | | | P 9-C* | 25N | | TB21- 53 | 16N | 107 | | | | | | |
| B 755R | | | P 9-B* | 25N | | TB21- 54 | 16N | 107 | | | | | | |
| B 756 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 756B | 41 | | TB21- 55 | 16N | 107 | | SHLD B 756 | 25N | | | | | | |
| B 756L | | | P83-C | 25N | | TB21- 56 | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 96 OF 188 | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|-----|---|----------------------|---------------|--------|----------------------|---------------|-----|---|-----|---|----------------------|---------------|-----|
| CONDUCTOR | | | FROM | | | TO | | | CONDUCTOR | | | FROM | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | |
| ITEM NO. | | | TERMINATION SPEC. | | | TERMINATION SPEC. | | | ITEM NO. | | | TERMINATION SPEC. | | |
| NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 |
| B 756R | | | P83-B | 25N | | TB21- 57 | 16N | 107 | | | | TB21- 57 | 16N | 107 |
| B 757 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 757B | 41 | | TB21- 58 | 16N | 107 | | SHLD B 757 | 25N | | | | | | |
| B 757L | | | P83-N | 25N | | TB21- 59CD | 16N | 107 | | | | | | |
| B 757R | | | P83-M | 25N | | TB21- 59AB | 16N | 107 | | | | | | |
| B 758 | 46 | | | 225 | 200 85 | 7 | | | | | | 225 | 200 48 52 846 | |
| B 758B | 41 | | E 33 | 25N | | SHLD B 758 | 25N | | | | | | | |
| B 758L | | | P 3-C | 25N | | P91-K* | 25N | | | | | | | |
| B 758R | | | P 3-F | 25N | | P91-K | 25N | | | | | | | |
| B 759 | 46 | | | 225 | 200 85 | 7 | | | | | | 225 | 200 48 52 846 | |
| B 759B | 41 | | E 33 | 25N | | SHLD B 759 | 25N | | | | | | | |
| B 759L | | | P 3-R | 25N | | P91-N* | 25N | | | | | | | |
| B 759R | | | P 3-G | 25N | | P91-N | 25N | | | | | | | |
| B 760 | 46 | | | 225 | 200 85 | 7 | | | | | | 225 | 200 48 52 846 | |
| B 760B | 41 | | E 33 | 25N | | SHLD B 760 | 25N | | | | | | | |
| B 760L | | | P 3-U | 25N | | P91-R* | 25N | | | | | | | |
| B 760R | | | P 3-K | 25N | | P91-R | 25N | | | | | | | |
| B 761 | 40 | | P 8-A | 25N | | TB25- 2 | 20N | 111 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 97 OF 188 | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|-----|---|----------------------|---------------|----------|----------------------|---------------|-----|---|-----|---|----------------------|---------------|---|
| CONDUCTOR | | | FROM | | | TO | | | CONDUCTOR | | | FROM | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | |
| ITEM NO. | | | TERMINATION SPEC. | | | TERMINATION SPEC. | | | ITEM NO. | | | TERMINATION SPEC. | | |
| NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 |
| B 762 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 762B | 41 | | TB20- 18 | 16N | 107 | | SHLD B 762 | 25N | | | | | | |
| B 762L | | | P22-M | 25N | | TB20- 17CD | 16N | 107 | | | | | | |
| B 762R | | | P22-L | 25N | | TB20- 17AB | 16N | 107 | | | | | | |
| B 763 | 65 | | | 52 | 23 90 91 | 7 | | | | | | 225 | 200 86 87 856 | |
| B 763B | 41 | | TB22- 19CD | 16N | 107 | | SHLD B 763 | 25N | | | | | | |
| B 763E | | | P66-F1 | 11N | 89 | | TB22- 19AB | 16N | 107 | | | | | |
| B 763X | | | P66-F2 | | | | SHLD B 763 | | | | | | | |
| B 764 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 764B | 41 | | TB20- 69 | 16N | 107 | | SHLD B 764 | 25N | | | | | | |
| B 764L | | | P 9-E* | 25N | | TB20- 70 | 16N | 107 | | | | | | |
| B 764R | | | P 9-D* | 25N | | TB20- 71 | 16N | 107 | | | | | | |
| B 765 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 765B | 41 | | TB20- 77 | 16N | 107 | | SHLD B 765 | 25N | | | | | | |
| B 765L | | | P86-C* | 25N | | TB20- 78 | 16N | 107 | | | | | | |
| B 765R | | | P86-B* | 25N | | TB20- 79 | 16N | 107 | | | | | | |
| B 766 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 766B | 41 | | TB20- 75 | 16N | 107 | | SHLD B 766 | 25N | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 98 OF 188 | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|-----|---|----------------------|---------------|--------|----------------------|---------------|-----|---|-----|---|----------------------|---------------|-----|
| CONDUCTOR | | | FROM | | | TO | | | CONDUCTOR | | | FROM | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | |
| ITEM NO. | | | TERMINATION SPEC. | | | TERMINATION SPEC. | | | ITEM NO. | | | TERMINATION SPEC. | | |
| NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 | NUMBER | NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 7 |
| B 766L | | | P86-E* | 25N | | TB20- 74CD | 16N | 107 | | | | TB20- 74AB | 16N | 107 |
| B 766R | | | P86-D* | 25N | | | | | | | | | | |
| B 767 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 767B | 41 | | TB19- 97 | 16N | 107 | | SHLD B 767 | 25N | | | | | | |
| B 767L | | | P85-EE | 25N | | TB19- 96CD | 16N | 107 | | | | | | |
| B 767R | | | P85-DD | 25N | | TB19- 96AB | 16N | 107 | | | | | | |
| B 768 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 768B | 41 | | TB19- 94 | 16N | 107 | | SHLD B 768 | 25N | | | | | | |
| B 768L | | | P84-EE | 25N | | TB19- 95CD | 16N | 107 | | | | | | |
| B 768R | | | P84-DD | 25N | | TB19- 95AB | 16N | 107 | | | | | | |
| B 769 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 769B | 41 | | TB19- 94 | 16N | 107 | | SHLD B 769 | 25N | | | | | | |
| B 769L | | | P 9-EE | 25N | | TB19- 93CD | 16N | 107 | | | | | | |
| B 769R | | | P 9-DD | 25N | | TB19- 93AB | 16N | 107 | | | | | | |
| B 770 | 46 | | | 225 | 200 85 | 7 | | | | | | 400 | 370 48 52 846 | |
| B 770B | 41 | | TB19- 91 | 16N | 107 | | SHLD B 770 | 25N | | | | | | |
| B 770L | | | P83-JJ | 25N | | TB19- 90CD | 16N | 107 | | | | | | |
| B 770R | | | P83-MH | 25N | | TB19- 90AB | 16N | 107 | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 99 OF 188 | | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------------------|-------------------|--|----------|----------------------|-------------------|
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. | NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 |
| B 771 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 771B | 41 | T819- 91 | 16N 107 | | | SHLD B 771 | 25N | | |
| B 771L | | P86-EE | 25N | | | T819- 92CD | 16N 107 | | |
| B 771R | | P86-DD | 25N | | | T819- 92AB | 16N 107 | | |
| B 772 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 772B | 41 | T822- 36 | 16N 107 | | | SHLD B 772 | 25N | | |
| B 772L | | P10-C | 25N | | | T822- 35CD | 16N 107 | | |
| B 772R | | P10-B | 25N | | | T822- 35AB | 16N 107 | | |
| B 773 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 773B | 41 | T821- 67 | 16N 107 | | | SHLD B 773 | 25N | | |
| B 773L | | P10-E | 25N | | | T821- 68CD | 16N 107 | | |
| B 773R | | P10-D | 25N | | | T821- 68AB | 16N 107 | | |
| B 774 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 774B | 41 | T821- 70 | 16N 107 | | | SHLD B 774 | 25N | | |
| B 774L | | P85-C | 25N | | | T821- 69CD | 16N 107 | | |
| B 774R | | P85-B | 25N | | | T821- 69AB | 16N 107 | | |
| B 775 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 775B | 41 | T821- 61 | 16N 107 | | | SHLD B 775 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 100 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------------------|-------------------|--|----------|----------------------|-------------------|
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. | NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 |
| B 775L | | P86-R | 25N | | | T821- 60CD | 16N 107 | | |
| B 775R | | P86-P | 25N | | | T821- 60AB | 16N 107 | | |
| B 776 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 776B | 41 | T821- 64 | 16N 107 | | | SHLD B 776 | 25N | | |
| B 776L | | P86-T | 25N | | | T821- 65CD | 16N 107 | | |
| B 776R | | P86-S | 25N | | | T821- 65AB | 16N 107 | | |
| B 777 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 777B | 41 | T821- 61 | 16N 107 | | | SHLD B 777 | 25N | | |
| B 777L | | P83-E | 25N | | | T821- 62CD | 16N 107 | | |
| B 777R | | P83-D | 25N | | | T821- 62AB | 16N 107 | | |
| B 778 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 778B | 41 | T821- 64 | 16N 107 | | | SHLD B 778 | 25N | | |
| B 778L | | P83-T | 25N | | | T821- 63CD | 16N 107 | | |
| B 778R | | P83-S | 25N | | | T821- 63AB | 16N 107 | | |
| B 779 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 779B | 41 | T820- 85 | 16N 107 | | | SHLD B 779 | 25N | | |
| B 779L | | P84-R | 25N | | | T820- 86CD | 16N 107 | | |
| B 779R | | P84-P | 25N | | | T820- 86AB | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 101 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------------------|-------------------|--|----------|----------------------|-------------------|
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. | NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 |
| B 780 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 780B | 41 | T820- 88 | 16N 107 | | | SHLD B 780 | 25N | | |
| B 780L | | P84-E* | 25N | | | T820- 89CD | 16N 107 | | |
| B 780R | | P84-D* | 25N | | | T820- 89AB | 16N 107 | | |
| B 781 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 781B | 41 | T820- 88 | 16N 107 | | | SHLD B 781 | 25N | | |
| B 781L | | P86-R* | 25N | | | T820- 87CD | 16N 107 | | |
| B 781R | | P86-P* | 25N | | | T820- 87AB | 16N 107 | | |
| B 782 | 42 | P99-C | 25N | | | T822- 40AB | 16N 107 | | |
| B 783 | 42 | P11-A | 25N | | | J19-T | 25N | | |
| B 784 | 42 | P11-B | 25N | | | J19-P* | 25N | | |
| B 785 | 42 | P11-C | 25N | | | J19-N* | 25N | | |
| B 786 | 42 | P11-J | 25N | | | J19-G* | 25N | | |
| B 787 | | DELETED | | | | | | | |
| B 788 | | DELETED | | | | | | | |
| B 789 | 42 | P11-H | 25N | | | J19-H* | 25N | | |
| B 790 | | DELETED | | | | | | | |
| B 791 | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 102 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|-------------------|----------------------|-------------------|--|----------|----------------------|-------------------|
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. | NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 |
| B 794 | 42 | P11-F | 25N | | | J19-Z | 25N | | |
| B 795 | 42 | P11-G | 25N | | | J19-A* | 25N | | |
| B 796 | 42 | P11-K | 25N | | | J19-B* | 25N | | |
| B 797 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 797B | 41 | E 38 | 25N | | | SHLD B 797 | 25N | | |
| B 797L | | P71-K | 25N | | | P65-N* | 25N | | |
| B 797R | | P71-J | 25N | | | P65-N | 25N | | |
| B 798 | 46 | | 225 200 85 | 7 | | | | 400 370 48 52 846 | |
| B 798B | 41 | E 38 | 25N | | | SHLD B 798 | 25N | | |
| B 798L | | P71-M | 25N | | | P65-P* | 25N | | |
| B 798R | | P71-L | 25N | | | P65-P | 25N | | |
| B 799 | 41 | P71-B | 25N | | | P63-C | 25N | | |
| B 800 | 41 | P71-C | 25N | | | P63-V* | 25N | | |
| B 801 | 41 | P71-E | 25N | | | P63-U* | 25N | | |
| B 802 | 41 | P71-F | 25N | | | P63-T* | 25N | | |
| B 803 | 41 | P71-G | 25N | | | P63-S* | 25N | | |
| B 804 | 41 | P71-P | 25N | | | P63-R* | 25N | | |
| B 805 | 41 | P71-R | 25N | | | P63-Q* | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 SCALE: NONE REV LTR AR SHEET 103 OF 188 | | | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|-----|--|-----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B 806 | 41 | P71-S | 25N | P63-P* | 25N |
| B 807 | 41 | P71-T | 25N | P63-N* | 25N |
| B 808 | 41 | P71-U | 25N | P63-M* | 25N |
| B 809 | 41 | P71-V | 25N | P63-K* | 25N |
| B 810 | 41 | P71-W | 25N | P63-J* | 25N |
| B 811 | 41 | P71-Y | 25N | P63-D | 25N |
| B 812 | 41 | P71-Z | 25N | P63-B | 25N |
| B 813 | 41 | P71-A* | 25N | P63-E | 25N |
| B 814 | 41 | P71-B* | 25N | P63-F | 25N |
| B 815 | 41 | P71-G* | 25N | P63-G | 25N |
| B 816 | 41 | P71-H* | 25N | P63-H | 25N |
| B 817 | 41 | P71-I* | 25N | P63-J | 25N |
| B 818 | 41 | P71-J* | 25N | P63-K | 25N |
| B 819 | 41 | P71-K* | 25N | P63-L | 25N |
| B 820 | 41 | P71-M* | 25N | P63-M | 25N |
| B 821 | 41 | P71-N* | 25N | P63-N | 25N |
| B 822 | 41 | P71-R* | 25N | P63-P | 25N |
| B 823 | 41 | P71-E* | 25N | P65-DD | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| SCALE - NONE | | | | REV LTR | AR |
| | | | | 1900943 | |
| | | | | SHEET 104 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B 824 | 41 | P71-D* | 25N | P65-EE | 25N |
| B 825 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 825B | 41 | TB22- 55 | 16N 107 | SHLD B 825 | 25N |
| B 825L | | P84-J | 25N | TB22- 54CD | 16N 107 |
| B 825R | | P84-M | 25N | TB22- 54AB | 16N 107 |
| B 826 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 826B | 41 | TB22- 52 | 16N 107 | SHLD B 826 | 25N |
| B 826L | | P 9-J | 25N | TB22- 51CD | 16N 107 |
| B 826R | | P 9-H | 25N | TB22- 51AB | 16N 107 |
| B 827 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 827B | 41 | TB22- 58 | 16N 107 | SHLD B 827 | 25N |
| B 827L | | P86-E | 25N | TB22- 59CD | 16N 107 |
| B 827R | | P86-D | 25N | TB22- 59AB | 16N 107 |
| B 828 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 828B | 41 | TB22- 58 | 16N 107 | SHLD B 828 | 25N |
| B 828L | | P86-N | 25N | TB22- 57CD | 16N 107 |
| B 828R | | P86-M | 25N | TB22- 57AB | 16N 107 |
| B 829 | 45 | | 225 200 85 | | 400 370 85 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| SCALE - NONE | | | | REV LTR | AR |
| | | | | 1900943 | |
| | | | | SHEET 105 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B 829B | 41 | TB19- 15 | 16N 107 | SHLD B 829 | 25N |
| B 829L | | P21-G* | 25N | TB19- 16CD | 16N 107 |
| B 829R | | P21-F* | 25N | TB19- 16AB | 16N 107 |
| B 830 | 42 | P32-Q* | 25N | TB21- 47CD | 16N 107 |
| B 831 | 42 | P32-R* | 25N | TB21- 60AB | 16N 107 |
| B 832 | 42 | P32-N* | 25N | TB21- 47AB | 16N 107 |
| B 833 | 12 | | | | |
| B 833L | | P32-T | 25N | TB21- 65CD | 16N 107 |
| B 833R | | P32-S | 25N | TB21- 65AB | 16N 107 |
| B 834 | 12 | | | | |
| B 834L | | P32-V | 25N | TB21- 62CD | 16N 107 |
| B 834R | | P32-U | 25N | TB21- 62AB | 16N 107 |
| B 838 | 42 | P37-C | 25N | J19-C* | 25N |
| B 839 | | DELETED | | | |
| B 840 | | DELETED | | | |
| B 842 | | DELETED | | | |
| B 843 | | DELETED | | | |
| B 844 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| SCALE - NONE | | | | REV LTR | AR |
| | | | | 1900943 | |
| | | | | SHEET 106 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|-----|----------------------|------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B 844B | 41 | TB21- 76 | 16N 107 | SHLD B 844 | 25N |
| B 844L | | P10-N | 25N | TB21- 74 | 16N 107 |
| B 844R | | P10-M | 25N | TB21- 75 | 16N 107 |
| B 845 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 845B | 41 | TB21- 73 | 16N 107 | SHLD B 845 | 25N |
| B 845L | | P10-R | 25N | TB21- 71 | 16N 107 |
| B 845R | | P10-P | 25N | TB21- 72 | 16N 107 |
| B 846 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 846B | 41 | TB21- 78 | 16N 107 | SHLD B 846 | 25N |
| B 846L | | P85-E | 25N | TB21- 77CD | 16N 107 |
| B 846R | | P85-D | 25N | TB21- 77AB | 16N 107 |
| B 847 | 46 | | 225 200 85 | | 400 370 48 52 846 |
| B 847B | 41 | TB18- 78 | 16N 107 | SHLD B 847 | 25N |
| B 847L | | P84-T* | 25N | TB18- 79CD | 16N 107 |
| B 847R | | P84-S* | 25N | TB18- 79AB | 16N 107 |
| B 848 | 42 | P35-D* | 25N | TB22- 2AB | 16N 107 |
| B 849 | 40 | P42-A | 25N | TB25- 5 | 20N 111 |
| B 850 | 40 | P44-A | 25N | TB25- 6 | 20N 111 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| SCALE - NONE | | | | REV LTR | AR |
| | | | | 1900943 | |
| | | | | SHEET 107 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 851 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 851B | 41 | TB20- 94 | 16N 107 | SHLD B 851 | 25N |
| B 851L | | P84-V | 25N | TB20- 95CD | 16N 107 |
| B 851R | | P84-U | 25N | TB20- 95AB | 16N 107 |
| B 852 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 852B | 41 | TB20- 91 | 16N 107 | SHLD B 852 | 25N |
| B 852L | | P84-G* | 25N | TB20- 90CD | 16N 107 |
| B 852R | | P84-F* | 25N | TB20- 90AB | 16N 107 |
| B 853 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 853B | 41 | TB20- 94 | 16N 107 | SHLD B 853 | 25N |
| B 853L | | P83-J | 25N | TB20- 93CD | 16N 107 |
| B 853R | | P83-H | 25N | TB20- 93AB | 16N 107 |
| B 854 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 854B | 41 | TB20- 97 | 16N 107 | SHLD B 854 | 25N |
| B 854L | | P83-X* | 25N | TB20- 96CD | 16N 107 |
| B 854R | | P83-W* | 25N | TB20- 96AB | 16N 107 |
| B 855 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 855B | 41 | TB20- 91 | 16N 107 | SHLD B 855 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | 1900943 |
| SCALE - NONE | | | | REV LTR | AR SHEET 108 OF 188 |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 855L | | P83-V | 25N | TB20- 92CD | 16N 107 |
| B 855R | | P83-U | 25N | TB20- 92AB | 16N 107 |
| B 856 | 41 | P17-A | 25N | TB25- 11 | 20N 111 |
| B 857 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 857B | 41 | TB19- 24 | 16N 107 | SHLD B 857 | 25N |
| B 857L | | P29-C | 25N | TB19- 25CD | 16N 107 |
| B 857R | | P29-B | 25N | TB19- 25AB | 16N 107 |
| B 858 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 858B | 41 | TB18- 9 | 16N 107 | SHLD B 858 | 25N |
| B 858L | | P29-G | 25N | TB18- 8CD | 16N 107 |
| B 858R | | P29-F | 25N | TB18- 8AB | 16N 107 |
| B 859 | 46 | | 225 200 48 52 845 | 225 200 85 | 7 |
| B 859A | 41 | SHLD B 859 | 25N | E 38 | 25N |
| B 859L | | P65-M* | 25N | P28-C | 25N |
| B 859R | | P65-M | 25N | P28-B | 25N |
| B 860 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 860B | 41 | TB22- 64 | 16N 107 | SHLD B 860 | 25N |
| B 860L | | P84-E | 25N | TB22- 65CD | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | 1900943 |
| SCALE - NONE | | | | REV LTR | AR SHEET 109 OF 188 |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 860R | | P84-D | 25N | TB22- 65AB | 16N 107 |
| B 861 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 861B | 41 | TB22- 61 | 16N 107 | SHLD B 861 | 25N |
| B 861L | | P 9-E | 25N | TB22- 62CD | 16N 107 |
| B 861R | | P 9-D | 25N | TB22- 62AB | 16N 107 |
| B 862 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 862B | 41 | TB22- 64 | 16N 107 | SHLD B 862 | 25N |
| B 862L | | P83-G | 25N | TB22- 63CD | 16N 107 |
| B 862R | | P83-F | 25N | TB22- 63AB | 16N 107 |
| B 863 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 863B | 41 | TB20- 64 | 16N 107 | SHLD B 863 | 25N |
| B 863L | | P83-L | 25N | TB20- 63CD | 16N 107 |
| B 863R | | P83-K | 25N | TB20- 63AB | 16N 107 |
| B 864 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 864B | 41 | TB22- 61 | 16N 107 | SHLD B 864 | 25N |
| B 864L | | P83-R | 25N | TB22- 60CD | 16N 107 |
| B 864R | | P83-P | 25N | TB22- 60A | 16N 107 |
| B 865 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | 1900943 |
| SCALE - NONE | | | | REV LTR | AR SHEET 110 OF 188 |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 865B | 41 | TB20- 77 | 16N 107 | SHLD B 865 | 25N |
| B 865L | | J16-M* | 25N | TB20- 76CD | 16N 107 |
| B 865R | | J16-G* | 25N | TB20- 76AB | 16N 107 |
| B 866 | 42 | P32-S* | 25N | TB21- 44AB | 16N 107 |
| B 867 | 42 | P32-T* | 25N | TB21- 57 | 16N 107 |
| B 868 | 12 | | | | |
| B 868L | | P32-X | 25N | TB21- 59CD | 16N 107 |
| B 868R | | P32-W | 25N | TB21- 59AB | 16N 107 |
| B 869 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 869B | 41 | TB21- 88 | 16N 107 | SHLD B 869 | 25N |
| B 869L | | P10-G | 25N | TB21- 87CD | 16N 107 |
| B 869R | | P10-F | 25N | TB21- 87AB | 16N 107 |
| B 870 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 870B | 41 | TB21- 84 | 16N 107 | SHLD B 870 | 25N |
| B 870L | | P10-J | 25N | TB21- 83CD | 16N 107 |
| B 870R | | P10-H | 25N | TB21- 83AB | 16N 107 |
| B 871 | 46 | | 225 200 85 | 400 370 48 52 846 | |
| B 871B | 41 | TB21- 81 | 16N 107 | SHLD B 871 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | 1900943 |
| SCALE - NONE | | | | REV LTR | AR SHEET 111 OF 188 |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|--|-----|------------------------|---|--|-----------|------------------------|---|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| B 871L | | P10-T | 25M | | | TB21- 82CD | 16M | 107 | |
| B 871R | | P10-S | 25M | | | TB21- 82AB | 16M | 107 | |
| B 872 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 872B | 41 | TB21- 88 | 16M | 107 | | SHLD B 872 | 25M | | |
| B 872L | | P10-V | 25M | | | TB21- 86CD | 16M | 107 | |
| B 872R | | P10-U | 25M | | | TB21- 86AB | 16M | 107 | |
| B 873 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 873B | 41 | TB21- 84 | 16M | 107 | | SHLD B 873 | 25M | | |
| B 873L | | P85-G | 25M | | | TB21- 85CD | 16M | 107 | |
| B 873R | | P85-F | 25M | | | TB21- 85AB | 16M | 107 | |
| B 874 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 874B | 41 | TB21- 81 | 16M | 107 | | SHLD B 874 | 25M | | |
| B 874L | | P85-J | 25M | | | TB21- 79 | 16M | 107 | |
| B 874R | | P85-H | 25M | | | TB21- 80 | 16M | 107 | |
| B 875 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 875B | 41 | TB21- 88 | 16M | 107 | | SHLD B 875 | 25M | | |
| B 875L | | P 9-T | 25M | | | TB21- 89CD | 16M | 107 | |
| B 875R | | P 9-S | 25M | | | TB21- 89AB | 16M | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE: NONE | | | | | | REV LTR | AR | SHEET 112 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|--|------|------------------------|---|--|-----------|------------------------|---|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| B 876 | | DELETED | | | | | | | |
| B 876B | | DELETED | | | | | | | |
| B 876L | | DELETED | | | | | | | |
| B 876R | | DELETED | | | | | | | |
| B 877 | | DELETED | | | | | | | |
| B 877B | | DELETED | | | | | | | |
| B 877L | | DELETED | | | | | | | |
| B 877R | | DELETED | | | | | | | |
| B 878 | 42 | J18-LL | 25M | | | P14-V* | 25M | | |
| B 879 | 42 | J22-J | 25M | | | P14-W* | 25M | | |
| B 880 | 16 | P22-A | 25M | | | TB25- 12 | 40M | 111 | |
| B 881 | 41 | P90-E | 327M | | | TB23- 12 | 20M | 111 | |
| B 882 | 41 | P90-I | 327M | | | TB23- 13 | 20M | 111 | |
| B 883 | | J22-U* | 25M | | | TB22- 60AB | 16M | 107 | |
| B 883 | 07 | | 225 | 200120 | 7 | | 225 | 200117118 856 | |
| B 883B | 41 | TB22- 61 | 16M | 107 | | SHLD B 883 | 25M | | |
| B 884 | 42 | J22-V* | 25M | | | TB22- 60CD | 16M | 107 | |
| B 885 | | J22-G | 25M | | | TB22- 63AB | 16M | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE: NONE | | | | | | REV LTR | AR | SHEET 113 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|--|-----|------------------------|---|--|-----------|------------------------|---|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| B 885 | 07 | | 225 | 200120 | 7 | | 225 | 200117118 856 | |
| B 885B | 41 | TB22- 64 | 16M | 107 | | SHLD B 885 | 25M | | |
| B 886 | 42 | J22-M | 25M | | | TB22- 63CD | 16M | 107 | |
| B 887 | 42 | J21-W | 25M | | | TB22- 40AB | 16M | 107 | |
| B 888 | 40 | P30-A | 25M | | | TB25- 2 | 20M | 111 | |
| B 889 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 889B | 41 | TB21- 91 | 16M | 107 | | SHLD B 889 | 25M | | |
| B 889L | | P10-V* | 25M | | | TB21- 92CD | 16M | 107 | |
| B 889R | | P10-U* | 25M | | | TB21- 92AB | 16M | 107 | |
| B 890 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 890B | 41 | TB21- 91 | 16M | 107 | | SHLD B 890 | 25M | | |
| B 890L | | P 9-G* | 25M | | | TB21- 93CD | 16M | 107 | |
| B 890R | | P 9-F* | 25M | | | TB21- 90AB | 16M | 107 | |
| B 891 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 891B | 41 | TB21- 91 | 16M | 107 | | SHLD B 891 | 25M | | |
| B 891L | | P83-E* | 25M | | | TB21- 90CD | 16M | 107 | |
| B 891R | | P83-D* | 25M | | | TB21- 90AB | 16M | 107 | |
| B 892 | 42 | J16-Z* | 25M | | | TB21- 40AB | 16M | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE: NONE | | | | | | REV LTR | AR | SHEET 114 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|--|-----|------------------------|---|--|-----------|------------------------|---|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. 1 | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| B 893 | 42 | J16-DD | 25M | | | TB21- 40AB | 16M | 107 | |
| B 894 | 42 | J16-GG | 25M | | | TB21- 40AB | 16M | 107 | |
| B 895 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 846 | |
| B 895B | 41 | TB19- 7 | 16M | 107 | | SHLD B 895 | 25M | | |
| B 895L | | P29-E | 25M | | | TB19- 6CD | 16M | 107 | |
| B 895R | | P29-D | 25M | | | TB19- 6AB | 16M | 107 | |
| B 896 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 896A | 41 | SHLD B 896 | 25M | | | TB17- 49CD | 16M | 107 | |
| B 896B | 41 | P15-F | 25M | | | SHLD B 896 | 25M | | |
| B 896E | | TB17- 49AB | 16M | 107 | | P15-G | 25M | | |
| B 897 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 897A | 41 | SHLD B 897 | 25M | | | TB17- 48CD | 16M | 107 | |
| B 897B | 41 | P15-K | 25M | | | SHLD B 897 | 25M | | |
| B 897E | | TB17- 48AB | 16M | 107 | | P15-L | 25M | | |
| B 898 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 898A | 41 | SHLD B 898 | 25M | | | TB17- 47CD | 16M | 107 | |
| B 898B | 41 | P14-X | 25M | | | SHLD B 898 | 25M | | |
| B 898E | | TB17- 47AB | 16M | 107 | | P14-W | 25M | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | |
| SCALE: NONE | | | | | | REV LTR | AR | SHEET 115 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 899 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 899A | 41 | SHLD B 899 | 25N | TB17- 46CD | 16N 107 |
| B 899B | 41 | P15-M* | 25N | SHLD B 899 | 25N |
| B 899E | | TB17- 46AB | 16N 107 | P15-M* | 25N |
| B 900 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 900A | 41 | SHLD B 900 | 25N | TB17- 45CD | 16N 107 |
| B 900B | 41 | P15-K* | 25N | SHLD B 900 | 25N |
| B 900E | | TB17- 45AB | 16N 107 | P15-J* | 25N |
| B 901 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 901A | 41 | SHLD B 901 | 25N | TB17- 44CD | 16N 107 |
| B 901B | 41 | P15-P* | 25N | SHLD B 901 | 25N |
| B 901E | | TB17- 44AB | 16N 107 | P15-O* | 25N |
| B 902 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 902A | 41 | SHLD B 902 | 25N | P14-T | 25N |
| B 902B | 41 | TB17- 43CD | 16N 107 | SHLD B 902 | 25N |
| B 902E | | P14-S | 25N | TB17- 43AB | 16N 107 |
| B 903 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 903A | 41 | SHLD B 903 | 25N | P15-I* | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 116 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 903B | 41 | TB17- 42CD | 16N 107 | SHLD B 903 | 25N |
| B 903E | | P15-H* | 25N | TB17- 42AB | 16N 107 |
| B 904 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 904A | 41 | SHLD B 904 | 25N | P15-V | 25N |
| B 904B | 41 | TB17- 41CD | 16N 107 | SHLD B 904 | 25N |
| B 904E | | P15-U | 25N | TB17- 41AB | 16N 107 |
| B 905 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 905A | 41 | SHLD B 905 | 25N | P15-G* | 25N |
| B 905B | 41 | TB17- 40CD | 16N 107 | SHLD B 905 | 25N |
| B 905E | | P15-F* | 25N | TB17- 40AB | 16N 107 |
| B 906 | 65 | 52 23 90 91 7 | | 225 200 86 87 856 | |
| B 906B | 41 | P17-B* | 25N | SHLD B 906 | 25N |
| B 906E | | P 7-C1 | 11N 85 | P17-A* | 25N |
| B 906X | | P 7-C2 | | SHLD B 906 | 25N |
| B 907 | 46 | 225 200 85 7 | | 400 370 48 52 846 | |
| B 907B | 41 | TB22- 88 | 16N 107 | SHLD B 907 | 25N |
| B 907L | | P10-C* | 25N | TB22- 86 | 16N 107 |
| B 907R | | P10-B* | 25N | TB22- 87 | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 117 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 908 | 46 | 225 200 85 7 | | 400 370 48 52 846 | |
| B 908B | 41 | TB22- 85 | 16N 107 | SHLD B 908 | 25N |
| B 908L | | P10-N* | 25N | TB22- 83 | 16N 107 |
| B 908R | | P10-M* | 25N | TB22- 84 | 16N 107 |
| B 909 | 46 | 225 200 85 7 | | 400 370 48 52 846 | |
| B 909B | 41 | TB22- 82 | 16N 107 | SHLD B 909 | 25N |
| B 909L | | P85-C* | 25N | TB22- 80 | 16N 107 |
| B 909R | | P85-B* | 25N | TB22- 81 | 16N 107 |
| B 910 | 07 | 225 200 120 | | 225 200 117 118 856 | |
| B 910B | 41 | TB22- 58 | 16N 107 | SHLD B 910 | 25N |
| B 910M | | J22-M* | 25N | TB22- 57AB | 16N 107 |
| B 911 | 42 | J22-N* | 25N | TB22- 57CD | 16N 107 |
| B 912 | 41 | P11-T* | 25N | TB25- 10 | 20N 111 |
| B 913 | 16 | J 3-BB | 25N | TB23- 15 | 20N 111 |
| B 914 | 42 | J22-C* | 25N | TB20- 81AB | 16N 107 |
| B 915 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 915A | 41 | SHLD B 915 | 25N | TB17- 37CD | 16N 107 |
| B 915B | 41 | P15-T | 25N | SHLD B 915 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 118 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| B 915E | | TB17- 37AB | 16N 107 | P15-S | 25N |
| B 916 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 916A | 41 | SHLD B 916 | 25N | TB17- 36CD | 16N 107 |
| B 916B | 41 | P15-P | 25N | SHLD B 916 | 25N |
| B 916E | | TB17- 36AB | 16N 107 | P15-R | 25N |
| B 917 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 917A | 41 | SHLD B 917 | 25N | TB17- 35CD | 16N 107 |
| B 917B | 41 | P15-D | 25N | SHLD B 917 | 25N |
| B 917E | | TB17- 35AB | 16N 107 | P15-E | 25N |
| B 918 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 918A | 41 | SHLD B 918 | 25N | TB17- 34CD | 16N 107 |
| B 918B | 41 | P15-H | 25N | SHLD B 918 | 25N |
| B 918E | | TB17- 34AB | 16N 107 | P15-J | 25N |
| B 919 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| B 919A | 41 | SHLD B 919 | 25N | TB17- 33CD | 16N 107 |
| B 919B | 41 | P15-B | 25N | SHLD B 919 | 25N |
| B 919E | | TB17- 33AB | 16N 107 | P15-C | 25N |
| B 920 | 65 | 225 200 86 87 856 | | 225 200 86 87 856 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 119 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 920A | 41 | SHLD B 920 | 25N | | | TB17- 32CD | 16N | 107 | |
| B 920B | 41 | P15-M | 25N | | | SHLD B 920 | 25N | | |
| B 920E | | TB17- 32AB | 16N | 107 | | P15-N | 25N | | |
| B 921 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 921A | 41 | SHLD B 921 | 25N | | | P14-G* | 25N | | |
| B 921B | 41 | TB17- 39CD | 16N | 107 | | SHLD B 921 | 25N | | |
| B 921E | | P14-F* | 25N | | | TB17- 39AB | 16 | 107 | |
| B 922 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 922A | 41 | SHLD B 922 | 25N | | | P14-R | 25N | | |
| B 922B | 41 | TB17- 38CD | 16N | 107 | | SHLD B 922 | 25N | | |
| B 922E | | P14-P | 25N | | | TB17- 38AB | 16N | 107 | |
| B 923 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 923A | 41 | SHLD B 923 | 25N | | | P14-S* | 25N | | |
| B 923B | 41 | TB17- 31CD | 16N | 107 | | SHLD B 923 | 25N | | |
| B 923E | | P14-U* | 25N | | | TB17- 31AB | 16N | 107 | |
| B 924 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 924A | 41 | SHLD B 924 | 25N | | | P15-EE | 25N | | |
| B 924B | 41 | TB17- 30CD | 16N | 107 | | SHLD B 924 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | | | |
| | | | | | | SCALE-NONE REV LTR AR SHEET 120 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 924E | | P15-FF | 25N | | | TB17- 30AB | 16N | 107 | |
| B 925 | | DELETE | | | | | | | |
| B 926 | 41 | P99-R* | 25N | | | P20-BB | 25N | | |
| B 927 | 42 | P99-R | 25N | | | P20-LL | 25N | | |
| B 928 | 42 | P99-Y | 25N | | | P20-EE | 25N | | |
| B 929 | 41 | P99-X | 25N | | | P20-FF | 25N | | |
| B 930 | 42 | P99-J | 25N | | | P20-MM | 25N | | |
| B 931 | 41 | P99-M | 25N | | | P20-GG | 25N | | |
| B 932 | | DELETE | | | | | | | |
| B 933 | 41 | TB22- 95AB | 16N | 107 | | P20-JJ | 25N | | |
| B 934 | 41 | P99-W | 25N | | | P20-KK | 25N | | |
| B 935 | 42 | J18-JJ | 25N | | | P96-V | 25N | | |
| B 936 | 42 | P31-K | 25N | | | TB22- 40AB | 16N | 107 | |
| B 937 | 42 | P98-EE | 25N | | | TB22- 2CD | 16N | 107 | |
| B 938 | 46 | | 225 | 200 85 7 | | | 400 | 370 48 52 846 | |
| B 938B | 41 | TB22- 91 | 16N | 107 | | SHLD B 938 | 25N | | |
| B 938L | | P84-J* | 25N | | | TB22- 92CD | 16N | 107 | |
| B 938R | | P84-H* | 25N | | | TB22- 92AB | 16N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | | | |
| | | | | | | SCALE-NONE REV LTR AR SHEET 121 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 939 | 46 | | 225 | 200 85 7 | | | 400 | 370 48 52 846 | |
| B 939B | 41 | TB22- 94 | 16N | 107 | | SHLD B 939 | 25N | | |
| B 939L | | P86-J* | 25N | | | TB22- 93CD | 16N | 107 | |
| B 939R | | P86-H* | 25N | | | TB22- 93AB | 16N | 107 | |
| B 940 | 46 | | 225 | 200 85 7 | | | 400 | 370 48 52 846 | |
| B 940B | 41 | TB22- 91 | 16N | 107 | | SHLD B 940 | 25N | | |
| B 940L | | P83-R* | 25N | | | TB22- 90CD | 16N | 107 | |
| B 940R | | P83-P* | 25N | | | TB22- 90AB | 16N | 107 | |
| B 941 | 42 | J22-A* | 25N | | | TB19- 98AB | 16N | 107 | |
| B 942 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 942A | 41 | SHLD B 942 | 25N | | | TB17- 25CD | 16N | 107 | |
| B 942B | 41 | P14-E | 25N | | | SHLD B 942 | 25N | | |
| B 942E | | TB17- 25AB | 16N | 107 | | P14-D | 25N | | |
| B 943 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 943A | 41 | SHLD B 943 | 25N | | | P14-X* | 25N | | |
| B 943B | 41 | TB17- 29CD | 16N | 107 | | SHLD B 943 | 25N | | |
| B 943E | | P14-R* | 25N | | | TB17- 29AB | 16N | 107 | |
| B 944 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | | | |
| | | | | | | SCALE-NONE REV LTR AR SHEET 122 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------|-----|---|---------------|---------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B 944A | 41 | SHLD B 944 | 25N | | | P15-Y* | 25N | | |
| B 944B | 41 | TB17- 28CD | 16N | 107 | | SHLD B 944 | 25N | | |
| B 944E | | P15-Z* | 25N | | | TB17- 28AB | 16N | 107 | |
| B 945 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 945A | 41 | SHLD B 945 | 25N | | | P15-AA | 25N | | |
| B 945B | 41 | TB17- 27CD | 16N | 107 | | SHLD B 945 | 25N | | |
| B 945E | | P15-BB | 25N | | | TB17- 27AB | 16N | 107 | |
| B 946 | 65 | | 225 | 200 86 87 856 | | | 225 | 200 86 87 856 | |
| B 946A | 41 | SHLD B 946 | 25N | | | P15-CC | 25N | | |
| B 946B | 41 | TB17- 26CD | 16N | 107 | | SHLD B 946 | 25N | | |
| B 946E | | P15-DD | 25N | | | TB17- 26AB | 16N | 107 | |
| B 948 | 42 | P24-B | 25N | | | TB23- 11 | 20N | 111 | |
| B 949 | 42 | P28-D | 25N | | | TB23- 17 | 20N | 111 | |
| B 950 | 42 | P37-K | 25N | | | J24-R* | 25N | | |
| B 951 | 42 | P37-M | 25N | | | J24-S* | 25N | | |
| B 952 | 42 | P37-T* | 25N | | | J24-V* | 25N | | |
| B 953 | 42 | P37-V* | 25N | | | J24-BB | 25N | | |
| B 954 | 42 | P37-P* | 25N | | | J24-W* | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | | | |
| | | | | | | SCALE-NONE REV LTR AR SHEET 123 OF 188 | | | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|---------------------|---|---------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 955 | 42 | P37-X* | 25N | J24-Y* | 25N |
| B 956 | 42 | P37-Z* | 25N | J24-Q* | 25N |
| B 957 | 42 | P37-BB | 25N | J24-N* | 25N |
| B 958 | 42 | P37-DD | 25N | J24-P* | 25N |
| B 959 | 42 | P37-I* | 25N | J24-U* | 25N |
| B 960 | 46 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 960B | 41 | SHLD B 960 | | E 26 | 25N |
| B 960L | | P37-NH | 25N | J24-D | 25N |
| B 960R | | P37-Z | 25N | J24-C | 25N |
| B 961 | 42 | P37-M* | 25N | J24-X* | 25N |
| B 962 | 42 | P37-L | 25N | J24-T* | 25N |
| B 963 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B 963A | 41 | SHLD B 963 | 25N | TB17- 10CD | 16N 107 |
| B 963B | 41 | P14-K | 25N | SHLD B 963 | 25N |
| B 963E | | TB17- 10AB | 16N 107 | P14-L | 25N |
| B 964 | 65 | | 225N 200 86 87 85 6 | | 225N 200 86 87 85 6 |
| B 964A | 41 | SHLD B 964 | 25N | P14-GG | 25N |
| B 964B | 41 | TB17- 13CD | 25N 107 | SHLD B 964 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 124 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|---------------------|---|---------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 964E | | P14-FF | 25N | TB17- 13AB | 16N 107 |
| B 965 | 65 | | 225N 200 86 87 85 6 | | 225N 200 86 87 85 6 |
| B 965A | 41 | SHLD B 965 | 25N | P14-NH | 25N |
| B 965B | 41 | TB17- 12CD | 16N 107 | SHLD B 965 | 25N |
| B 965E | | P14-CC | 25N | TB17- 12AB | 16N 107 |
| B 966 | 65 | | 225N 200 86 87 85 6 | | 225 200 86 87 856 |
| B 966A | 41 | SHLD B 966 | 25N | P15-B* | 25N |
| B 966B | 41 | TB17- 15CD | 16N 107 | SHLD B 966 | 25N |
| B 966E | | P15-A* | 25N | TB17- 15AB | 16N 107 |
| B 967 | 65 | | 225N 200 86 87 85 6 | | 225 200 86 87 856 |
| B 967A | 41 | SHLD B 967 | 25N | P14-EE | 25N |
| B 967B | 41 | TB17- 14CD | 16N 107 | SHLD B 967 | 25N |
| B 967E | | P14-DD | 25N | TB17- 14AB | 16N 107 |
| B 968 | 12 | | | | |
| B 968L | | J22-V | 25N | TB21- 63AB | 16N 107 |
| B 968R | | J22-U | 25N | TB21- 47AB | 16N 107 |
| B 969 | 12 | | | | |
| B 969L | | J22-X | 25N | TB21- 60AB | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 125 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 969R | | J22-W | 25N | TB21- 47CD | 16N 107 |
| B 970 | 12 | | | | |
| B 970L | | J22-Z | 25N | TB21- 57AB | 16N 107 |
| B 970R | | J22-Y | 25N | TB21- 44AB | 16N 107 |
| B 971 | 46 | | 225 200 85 7 | | 225 200 48 52 845 |
| B 971B | 41 | SHLD B 971 | 25N | E 26 | 25N |
| B 971L | | P11-FF | 25N | J22-T | 25N |
| B 971R | | P11-X | 25N | J22-S | 25N |
| B 972 | 42 | P11-T | 25N | J22-E | 25N |
| B 973 | 42 | P11-R | 25N | J22-C | 25N |
| B 974 | 42 | P11-S | 25N | J22-D | 25N |
| B 975 | 42 | P11-V | 25N | J22-AA | 25N |
| B 976 | 42 | P11-W | 25N | J22-BB | 25N |
| B 977 | 42 | J21-U | 25N | TB22- 2CD | 16N 107 |
| B 978 | 42 | P37-H* | 25N | J22-CC | 25N |
| B 979 | 42 | P37-J* | 25N | J22-DD | 25N |
| B 980 | 42 | P37-N* | 25N | J22-EE | 25N |
| B 982 | 42 | P37-S* | 25N | J22-GG | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 126 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B 983 | 42 | P37-U* | 25N | J22-HH | 25N |
| B 984 | 42 | P37-W* | 25N | J22-M* | 25N |
| B 985 | 42 | P37-Y* | 25N | J22-X* | 25N |
| B 986 | 42 | P37-AA | 25N | J22-Y* | 25N |
| B 987 | 42 | P37-CC | 25N | J22-Z* | 25N |
| B 988 | 42 | J16-JJ | 25N | TB21- 5AB | 16N 107 |
| B 989 | 42 | J16-MH | 25N | TB21- 5CD | 16N 107 |
| B 990 | 40 | J26-AA | 25N 157 | TB 9- 1 | 20N 111 |
| B 991 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B 991A | 41 | SHLD B 991 | 25N | TB17-16CD | 16N 107 |
| B 991B | 41 | P14-Y | 25N | SHLD B 991 | 25N |
| B 991E | | TB17-16AB | 16N 107 | P14-Z | 25N |
| B 992 | 42 | P14-E* | 25N | TB17- 1AB | 16N 107 |
| B 993 | 44 | | 225N 200 83 | | 300 270 51 55 83 |
| B 993B | 41 | E 48 | 25N | SHLD B 993 | 25N |
| B 993L | | P99-N* | 25N | P90-F | 25N |
| B 993R | | P99-M* | 25N | P90-G | 25N |
| B 994 | 42 | P24-S | 25N | J20-M | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 127 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B 995 | 42 | P24-C* | 25N | J20-C | 25N |
| B 999 | 40 | P 4-A | 25N | TB25- 9 | 20N 111 |
| B1000 | 42 | J22-D* | 25N | TB22- 2AB | 16N 107 |
| B1001 | 41 | P24-A | 25N | TB25- 10 | 20N 111 |
| B1006 | 07 | | 225 200120 7 | | 225 200117118 856 |
| B1006B | 41 | TB22-100 | 16N 107 | SHLD B1006 | 25N |
| B1006M | | P36-F* | 25N | TB22- 99AB | 16N 107 |
| B1007 | 07 | | 225 200120 7 | | 225 200117118 856 |
| B1007B | 41 | TB21-100 | 16N 107 | SHLD B1007 | 25N |
| B1007M | | P36-D* | 25N | TB21- 99AB | 16N 107 |
| B1008 | 07 | | 225 200120 7 | | 225 200117118 856 |
| B1008B | 41 | TB21- 97 | 16N 107 | SHLD B1008 | 25N |
| B1008M | | P36-B* | 25N | TB21- 98AB | 16N 107 |
| B1009 | 42 | P92-B* | 25N | J18-N* | 25N |
| B1010 | 42 | P92-A* | 25N | J18-M* | 25N |
| B1011 | 42 | P92-Y | 25N | J18-K* | 25N |
| B1012 | 42 | P96-A | 25N | J21-R* | 25N |
| B1013 | 42 | P96-B | 25N | J21-Q* | 25N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 128 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B1014 | 42 | P96-C | 25N | J21-P* | 25N |
| B1015 | 42 | P96-D | 25N | J21-N* | 25N |
| B1016 | 42 | P96-E | 25N | J21-M* | 25N |
| B1017 | 42 | P96-G | 25N | J21-B* | 25N |
| B1018 | 42 | P96-H | 25N | J21-C* | 25N |
| B1019 | 42 | P96-J | 25N | J21-D* | 25N |
| B1020 | 42 | P96-K | 25N | J21-E* | 25N |
| B1021 | 42 | P96-L | 25N | J21-F* | 25N |
| B1022 | 42 | P96-M | 25N | J21-G* | 25N |
| B1023 | 42 | P96-N | 25N | J21-H* | 25N |
| B1024 | 42 | P96-P | 25N | J21-J* | 25N |
| B1025 | 42 | P96-R | 25N | J21-K* | 25N |
| B1026 | 42 | P96-S | 25N | J21-A* | 25N |
| B1027 | 42 | P96-X | 25N | J21-U* | 25N |
| B1028 | 42 | J25-CC | 25N | TB17- 93AB | 16N 107 |
| B1029 | 42 | J25-DD | 25N | TB17- 92AB | 16N 107 |
| B1030 | 42 | P36-H | 25N | J18-P* | 25N |
| B1031 | 42 | P36-G | 25N | J18-T* | 25N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 129 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|---|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B1032 | 42 | P36-F | 25N | J18-Y | 25N |
| B1033 | 42 | P36-Z | 25N | J18-KK | 25N |
| B1035 | 41 | J26-C* | 25N | TB20- 4AB | 16N 107 |
| B1036 | 42 | J26-D* | 25N | TB20- 40CD | 16N 107 |
| B1037 | 41 | TB20- 14AB | 16N 107 | P17-Y* | 25N |
| B1038 | 42 | P16-CC | 25N | TB20- 13AB | 16N 107 |
| B1040 | 46 | | 225 200 85 | | 225 200 48 52 845 |
| B1040B | 41 | E 26 | 25N | SHLD B1040 | 25N |
| B1040L | | P35-J | 25N | J24-D* | 25N |
| B1040R | | P35-M | 25N | J24-C* | 25N |
| B1041 | 46 | | 225 200 85 | | 225 200 48 52 845 |
| B1041B | 41 | E 26 | 25N | SHLD B1041 | 25N |
| B1041L | | P35-G | 25N | J24-A* | 25N |
| B1041R | | P35-F | 25N | J24-B* | 25N |
| B1042 | 46 | | 225 200 85 | | 225 200 48 52 845 |
| B1042B | 41 | E 26 | 25N | SHLD B1042 | 25N |
| B1042L | | P35-E | 25N | J24-H* | 25N |
| B1042R | | P35-D | 25N | J24-G* | 25N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 130 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|--------------------|---|--------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| B1043 | 46 | | 225 200 85 | | 225 200 48 52 845 |
| B1043B | 41 | E 26 | 25N | SHLD B1043 | 25N |
| B1043L | | P35-C | 25N | J24-F* | 25N |
| B1043R | | P35-B | 25N | J24-E* | 25N |
| B1044 | 41 | J26-J* | 25N | TB20- 32AB | 16N 107 |
| B1045 | 41 | J26-E* | 25N | TB20- 31AB | 16N 107 |
| B1046 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1046A | 41 | SHLD B1046 | 25N | P25-V* | 25N |
| B1046B | 41 | TB17- 22CD | 16N 107 | SHLD B1046 | 25N |
| B1046E | | P25-U* | 25N | TB17- 22AB | 16N 107 |
| B1047 | 65 | | 225 200 86 87 85 6 | | 225 200 86 87 85 6 |
| B1047A | 41 | SHLD B1047 | 25N | P25-Z* | 25N |
| B1047B | | TB17- 21CD | 16N 107 | SHLD B1047 | 25N |
| B1047E | | P25-Y* | 25N | TB17- 21AB | 16 107 |
| B1048 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1048B | 41 | TB17- 50 | 16N 107 | SHLD B1048 | 25N |
| B1048L | | P26-P* | 25N | TB17- 23CD | 16N 107 |
| B1048R | | P26-N* | 25N | TB17- 23AB | 16N 107 |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 131 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|---------------|---|-----|-----------------|-----|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | TERMINATION NO. | |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B1049 | 46 | | 225 | | 400 | | | | |
| B1049B | 41 | E 59 | 25N | SHLD B1049 | 25N | | | | |
| B1049L | | P24-K* | 25N | P98-X* | 25N | | | | |
| B1049R | | P24-J* | 25N | P98-W* | 25N | | | | |
| B1050 | 7 | | 225 | | 225 | | | | |
| B1050A | 41 | SHLD B1050 | 25N | E 32 | 25N | | | | |
| B1050L | | DELETE | | | | | | | |
| B1050M | | P36-Q* | 25N | J22-R* | 25N | | | | |
| B1051 | 42 | P36-AA | 25N | J22-T* | 25N | | | | |
| B1052 | 42 | P36-DD | 25N | J22-F | 25N | | | | |
| B1053 | 42 | P36-BB | 25N | J22-K* | 25N | | | | |
| B1054 | 42 | P36-EE | 25N | TB20- 7AB | 16N | | | | |
| B1056 | 42 | P36-GG | 25N | TB21- 4CD | 16N | | | | |
| B1057 | 42 | P36-W* | 25N | TB18-100CD | 16N | | | | |
| B1058 | 42 | P36-X* | 25N | TB18-100AB | 16N | | | | |
| B1059 | 42 | P35-A* | 25N | J22-B* | 25N | | | | |
| B1060 | 42 | P98-GG | 25N | J16-D* | 25N | | | | |
| B1061 | 42 | P98-HH | 25N | J16-E* | 25N | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 132 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|---------------|---|-----|-----------------|-----|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | TERMINATION NO. | |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B1062 | 42 | P98-FF | 25N | | | | | | |
| B1063 | 42 | P98-T* | 25N | P36-M* | 25N | | | | |
| B1064 | 41 | J26-H* | 25N | TB20- 23AB | 16N | | | | |
| B1065 | 41 | J26-G* | 25N | TB20- 22AB | 16N | | | | |
| B1066 | 41 | J26-I* | 25N | TB20- 29AB | 16N | | | | |
| B1067 | 41 | J26-F* | 25N | TB20- 28AB | 16N | | | | |
| B1068 | 41 | J26-GG | 25N | TB20- 26AB | 16N | | | | |
| B1069 | 41 | J26-HH | 25N | TB20- 25AB | 16N | | | | |
| B1070 | 42 | P25-C* | 25N | TB20- 66AB | 16N | | | | |
| B1071 | 42 | P25-D* | 25N | TB20- 66CD | 16N | | | | |
| B1072 | 42 | P35-BB | 25N | J25-S* | 25N | | | | |
| B1073 | 44 | | 225 | | 225 | | | | |
| B1073B | 41 | E 25 | 25N | SHLD B1073 | 25N | | | | |
| B1073L | | P35-S* | 25N | J25-Z* | 25N | | | | |
| B1073R | | P35-T* | 25N | J25-Y* | 25N | | | | |
| B1074 | 45 | | 225 | | 400 | | | | |
| B1074B | 41 | TB20- 18 | 16N | SHLD B1074 | 25N | | | | |
| B1074L | | J26-U* | 25N | TB20- 17CD | 16N | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 133 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|---------------|---|-----|-----------------|-----|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | TERMINATION NO. | |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B1074R | | J26-T* | 25N | TB20- 17AB | 16N | | | | |
| B1076 | 42 | TB17- 89AB | 25N | J18-H* | 25N | | | | |
| B1077 | 42 | P98-E | 25N | J18-G* | 25N | | | | |
| B1078 | 42 | P34-HH | 25N | J18-B* | 25N | | | | |
| B1079 | 42 | P34-GG | 25N | J18-A* | 25N | | | | |
| B1080 | 42 | P34-FF | 25N | J18-C* | 25N | | | | |
| B1081 | 42 | P34-EE | 25N | J18-D* | 25N | | | | |
| B1082 | 42 | P34-DD | 25N | J18-F* | 25N | | | | |
| B1083 | 42 | P34-CC | 25N | J18-E* | 25N | | | | |
| B1084 | 42 | P98-N* | 25N | J21-Z* | 25N | | | | |
| B1085 | 42 | P98-G* | 25N | J21-HH | 25N | | | | |
| B1086 | 42 | P98-DD | 25N | J21-EE | 25N | | | | |
| B1087 | 42 | P98-H* | 25N | J21-V | 25N | | | | |
| B1088 | 42 | P98-J* | 25N | J21-L | 25N | | | | |
| B1089 | 42 | P98-CC | 25N | J21-M | 25N | | | | |
| B1090 | 42 | P98-I* | 25N | J21-X* | 25N | | | | |
| B1091 | 42 | P98-V | 25N | J21-GG | 25N | | | | |
| B1092 | 42 | P98-U | 25N | J21-DD | 25N | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 134 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|----------------------|---------------|---|-----|-----------------|-----|
| CONDUCTOR | | FROM | | TO | | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | TERMINATION NO. | |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | NO. |
| B1093 | 42 | P98-T | 25N | J21-N | 25N | | | | |
| B1094 | 42 | P98-S | 25N | J21-J | 25N | | | | |
| B1095 | 42 | P98-R | 25N | J21-K | 25N | | | | |
| B1096 | 42 | P99-L | 25N | J18-MH | 25N | | | | |
| B1097 | 42 | P99-T* | 25N | J18-AA | 25N | | | | |
| B1098 | 42 | P99-S* | 25N | J18-BB | 25N | | | | |
| B1099 | 42 | P98-BB | 25N | J21-Z | 25N | | | | |
| B1100 | 42 | P98-Y* | 25N | J21-Y | 25N | | | | |
| B1101 | 42 | P99-FF | 25N | J21-S | 25N | | | | |
| B1102 | 42 | P98-S* | 25N | J21-FF | 25N | | | | |
| B1103 | 42 | P98-R* | 25N | J21-Y* | 25N | | | | |
| B1104 | 42 | P98-P* | 25N | J21-AA | 25N | | | | |
| B1105 | 42 | P98-M* | 25N | J21-BB | 25N | | | | |
| B1106 | 42 | P34-K | 25N | J18-PP | 25N | | | | |
| B1107 | 42 | P99-B* | 25N | J18-Z | 25N | | | | |
| B1108 | 46 | | 225 | | 400 | | | | |
| B1108B | 41 | TB18- 99 | 16N | SHLD B1108 | 25N | | | | |
| B1108L | | P25-GG | 25N | TB21- 71 | 16N | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR AR SHEET 135 OF 188 | | | |

| | | | |
|-----|------------------|----|---------|
| GM1 | WIRING HARNESS B | AR | 1900943 |
|-----|------------------|----|---------|

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|--------------------|----------|-------------------|--------------------|--------------------|----------|-------------------|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| NUMBER | ITEM NO. | STEP CIRCUIT POINT | ITEM NO. | NO. | STEP CIRCUIT POINT | ITEM NO. | NO. | | | | |
| B1158A | 41 | SHLD B1158 | 25N | | E 35 | 25N | | | | | |
| B1158L | | P32-J* | 25N | | J17-K* | 25N | | | | | |
| B1158R | | P32-J | 25N | | J17-J* | 25N | | | | | |
| B1159 | 46 | | 225 | 200 48 52 845 | | 225 | 200 85 7 | | | | |
| B1159A | 41 | SHLD B1159 | 25N | | E 35 | 25N | | | | | |
| B1159L | | P32-F* | 25N | | J17-S* | 25N | | | | | |
| B1159R | | P32-F | 25N | | J17-R* | 25N | | | | | |
| B1160 | 46 | | 225 | 200 48 52 845 | | 225 | 200 85 7 | | | | |
| B1160A | 41 | SHLD B1160 | 25N | | E 36 | 25N | | | | | |
| B1160L | | P32-D* | 25N | | J17-B* | 25N | | | | | |
| B1160R | | P32-D | 25N | | J17-A* | 25N | | | | | |
| B1161 | 46 | | 225 | 200 48 52 845 | | 225 | 200 85 7 | | | | |
| B1161A | 41 | SHLD B1161 | 25N | | E 36 | 25N | | | | | |
| B1161L | | P32-C* | 25N | | J17-D* | 25N | | | | | |
| B1161R | | P32-C | 25N | | J17-C* | 25N | | | | | |
| B1162 | 46 | | 225 | 200 48 52 845 | | 225 | 200 85 7 | | | | |
| B1162A | 41 | SHLD B1162 | 25N | | E 36 | 25N | | | | | |
| B1162L | | P32-AA | 25N | | J17-Y* | 25N | | | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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GMI WIRING HARNESS B AR 1900943

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|----------|---------------|-----|----------------------|----------|-------------|-----|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | SPEC. | NO. | STRIP WIRE OR JACKET | ITEM NO. | SPEC. | NO. | | |
| B1162R | | P32-BB | 25N | | | J17-X* | 25N | | | | |
| B1163 | 46 | | 225 | 200 48 52 845 | | | 225 | 200 85 | 7 | | |
| B1163A | 41 | SHLD B1163 | 25N | | | E 35 | 25N | | | | |
| B1163L | | P32-G | 25N | | | J17-Q* | 25N | | | | |
| B1163M | | P32-G* | 25N | | | J17-P* | 25N | | | | |
| B1164 | 46 | | 225 | 200 48 52 845 | | | 225 | 200 85 | 7 | | |
| B1164A | 41 | SHLD B1164 | 25N | | | E 36 | 25N | | | | |
| B1164L | | P32-B | 25N | | | J17-F* | 25N | | | | |
| B1164R | | P32-B* | 25N | | | J17-E* | 25N | | | | |
| B1165 | 42 | P98-U* | 25N | | | TB23- 14 | 16N | | | | |
| B1166 | 42 | P99-P | 25N | | | J26-S* | 25N | | | | |
| B1167 | 42 | P34-C | 25N | | | J26-X* | 25N | | | | |
| B1168 | 42 | P34-B | 25N | | | J26-Y* | 25N | | | | |
| B1169 | 42 | P34-E | 25N | | | J26-Z* | 25N | | | | |
| B1170 | 42 | P34-G | 25N | | | J26-CC | 25N | | | | |
| B1171 | 42 | P34-M | 25N | | | TB19- 3AB | 17N | 107 | | | |
| B1172 | 42 | P34-E* | 25N | | | J26-R* | 25N | | | | |
| B1173 | 42 | P99-K | 25N | | | J26-DD | 25N | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| GM1 | WIRING HARNESS B | AR | 1900943 |
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| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|---------------------|-----|-------------------|---|------------|---|---------------------|-----|-------------------|----|------------|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | |
| ITEM NO. 1 | | STEM WIRE OR JACKET | | CIRCUIT POINT 2 | | ITEM NO. 1 | | STEM WIRE OR JACKET | | CIRCUIT POINT 2 | | ITEM NO. 1 | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| B1174 | 42 | P99-F | 25N | | | | | J26-W* | 25N | | | | |
| B1175 | 42 | P41-A | 25N | | | | | TB18-83AB | 16N | 107 | | | |
| B1176 | 42 | P41-B | 25N | | | | | P 5-C | 25N | | | | |
| B1177 | 42 | P41-C | 25N | | | | | P 5-D | 25N | | | | |
| B1178 | 42 | P41-D | 25N | | | | | P 5-E | 25N | | | | |
| B1179 | 42 | P39-LL | 25N | | | | | P 5-H | 25N | | | | |
| B1180 | 42 | P39-MM | 25N | | | | | P 5-J | 25N | | | | |
| B1181 | 42 | P39-NN | 25N | | | | | P 5-K | 25N | | | | |
| B1182 | 42 | P39-PP | 25N | | | | | P 5-L | 25N | | | | |
| B1183 | 42 | P39-GG | 25N | | | | | P 5-P | 25N | | | | |
| B1184 | 42 | P39-HH | 25N | | | | | P 5-R | 25N | | | | |
| B1185 | 42 | P39-JJ | 25N | | | | | P 5-S | 25N | | | | |
| B1186 | 42 | P39-KK | 25N | | | | | P 5-T | 25N | | | | |
| B1187 | 42 | P39-CC | 25N | | | | | P 5-W | 25N | | | | |
| B1188 | 42 | P39-DD | 25N | | | | | P 5-X | 25N | | | | |
| B1189 | 42 | P39-EE | 25N | | | | | P 5-Y | 25N | | | | |
| B1190 | 42 | P39-FF | 25N | | | | | P 5-Z | 25N | | | | |
| B1191 | 42 | P39-Y* | 25N | | | | | P 5-B* | 25N | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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GMI WIRING HARNESS B AR 1900943

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|----------|-------------|----------------------|--------------------|-------------------|----------------------|----------|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | |
| ITEM NO. | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | | |
| NUMBER | NO. | CIRCUIT POINT | NO. | NO. | CIRCUIT POINT | NO. | NO. | CIRCUIT POINT | NO. | | |
| B1192 | 42 | P39-Z* | 25N | | P 5-C* | 25N | | | | | |
| B1193 | 42 | P39-AA | 25N | | P 5-D* | 25N | | | | | |
| B1194 | 42 | P39-BB | 25N | | P 5-E* | 25N | | | | | |
| B1195 | 42 | P39-U* | 25N | | P 5-G* | 25N | | | | | |
| B1196 | 42 | P39-V* | 25N | | P 5-H* | 25N | | | | | |
| B1197 | 42 | P39-W* | 25N | | P 5-I* | 25N | | | | | |
| B1198 | 42 | P39-X* | 25N | | P 5-J* | 25N | | | | | |
| B1199 | 42 | P39-S* | 25N | | P 5-R* | 25N | | | | | |
| B1200 | 42 | P39-P* | 25N | | P 5-S* | 25N | | | | | |
| B1201 | 42 | P39-R* | 25N | | TB18-83CD | 16N | 107 | | | | |
| B1202 | 42 | P39-T* | 25N | | P 5-P* | 25N | | | | | |
| B1203 | 46 | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | |
| B1203B | 41 | TB20- 6 | 16N | 107 | | SHLD B1203 | 25N | | | | |
| B1203L | | P25-PP | 25N | | | TB20- 8CD | 16N | 107 | | | |
| B1203R | | P25-MM | 25N | | | TB20- 7AB | 16N | 107 | | | |
| B1204 | 46 | | 225 | 200 85 | 7 | | 400 370 48 52 846 | | | | |
| B1204B | 41 | TB21- 3 | 16N | 107 | | SHLD B1204 | 25N | | | | |
| B1204L | | P25-MM | 25N | | | TB21- 7CD | 16N | 107 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|--------|----------------------|---------------|-------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B1204R | | | P25-LL | 25N | | TB21- 4CD | 16N | 107 | | | | | | |
| B1205 | 44 | | | 225 | 200 85 | | | 400 370 48 52 846 | | | | | | |
| B1205B | 41 | | TB21- 9 | 16N | 107 | SHLD B1205 | 25N | | | | | | | |
| B1205L | | | P25-KK | 25N | | TB21- 8CD | 16N | 107 | | | | | | |
| B1205R | | | P25-JJ | 25N | | TB21- 40CD | 16N | 107 | | | | | | |
| B1206 | 44 | | | 225 | 200 85 | | | 400 370 48 52 846 | | | | | | |
| B1206B | 41 | | TB22- 27 | 16N | 107 | SHLD B1206 | 25N | | | | | | | |
| B1206L | | | P25-R* | 25N | | TB22- 26CD | 16N | 107 | | | | | | |
| B1206R | | | P25-P* | 25N | | TB22- 26AB | 16N | 107 | | | | | | |
| B1207 | 44 | | | 225 | 200 85 | | | 400 370 48 52 846 | | | | | | |
| B1207B | 41 | | TB22- 27 | 16N | 107 | SHLD B1207 | 25N | | | | | | | |
| B1207L | | | P25-Q* | 25N | | TB22- 28CD | 16N | 107 | | | | | | |
| B1207R | | | P25-M* | 25N | | TB22- 28AB | 16N | 107 | | | | | | |
| B1208 | 44 | | | 225 | 200 85 | | | 400 370 48 52 846 | | | | | | |
| B1208B | 41 | | TB22- 30 | 16N | 107 | SHLD B1208 | 25N | | | | | | | |
| B1208L | | | P25-M* | 25N | | TB22- 29CD | 16N | 107 | | | | | | |
| B1208R | | | P25-K* | 25N | | TB22- 29AB | 16N | 107 | | | | | | |
| B1209 | 42 | | P24-Z | 25N | | TB21- 4AB | 16N | 107 | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 144 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|---------------|----------------------|---------------|------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B1210 | 40 | | J26-BB | 25N | 157 | TB12- 10 | 20N | 111 | | | | | | |
| B1211 | 42 | | P24-K | 25N | | TB22- 2CD | 16N | 107 | | | | | | |
| B1213 | 42 | | P31-P | 25N | | P98-G | 25N | | | | | | | |
| B1214 | 42 | | P31-R | 25N | | P98-C* | 25N | | | | | | | |
| B1215 | 42 | | P31-U | 25N | | P98-H | 25N | | | | | | | |
| B1216 | 42 | | P31-X | 25N | | P98-N | 25N | | | | | | | |
| B1217 | 42 | | P31-C* | 25N | | P98-J | 25N | | | | | | | |
| B1218 | 40 | | P92-M* | 25N | 157 | TB 7- 4 | 20N | 111 | | | | | | |
| B1219 | 44 | | | 400 | 370 48 52 846 | | | 225 200 85 | 7 | | | | | |
| B1219A | 41 | | SHLD B1219 | 25N | | TB27- 22 | 16N | 107 | | | | | | |
| B1219L | | | TB27- 21CD | 16N | 107 | P65-B* | 25N | | | | | | | |
| B1219R | | | TB27- 21AB | 16N | 107 | P65-B | 25N | | | | | | | |
| B1220 | 44 | | | 400 | 370 48 52 846 | | | 225 200 85 | 7 | | | | | |
| B1220A | 41 | | SHLD B1220 | 25N | | TB27- 22 | 16N | 107 | | | | | | |
| B1220L | | | TB27- 23CD | 16N | 107 | P65-U* | 25N | | | | | | | |
| B1220R | | | TB27- 23AB | 16N | 107 | P65-U | 25N | | | | | | | |
| B1221 | 44 | | | 400 | 370 48 52 846 | | | 225 200 85 | 7 | | | | | |
| B1221A | 41 | | SHLD B1221 | 25N | | TB27- 28 | 16N | 107 | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 145 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|---------------|----------------------|---------------|-------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B1221L | | | TB27- 26CD | 16N | 107 | P65-R* | 25N | | | | | | | |
| B1221R | | | TB27- 26AB | 16N | 107 | P65-R | 25N | | | | | | | |
| B1222 | 44 | | | 400 | 370 48 52 846 | | | 225 200 85 | 7 | | | | | |
| B1222A | 41 | | SHLD B1222 | 25N | | TB27- 22 | 16N | 107 | | | | | | |
| B1222L | | | TB27- 24CD | 16N | 107 | P65-S* | 25N | | | | | | | |
| B1222R | | | TB27- 24AB | 16N | 107 | P65-S | 25N | | | | | | | |
| B1223 | 65 | | | 225 | 200 86 87 856 | | | 52 23 90 91 | 7 | | | | | |
| B1223A | 41 | | SHLD B1223 | 25N | | TB27- 25CD | 16N | 107 | | | | | | |
| B1223E | | | TB27- 25AB | 16N | 107 | P93-H1 | 11N | 89 | | | | | | |
| B1223X | | | SHLD B1223 | | | P93-H2 | | | | | | | | |
| B1224 | 65 | | | 225 | 200 86 87 856 | | | 52 23 90 91 | 7 | | | | | |
| B1224A | 41 | | SHLD B1224 | 25N | | TB27- 18CD | 16N | 107 | | | | | | |
| B1224E | | | TB27- 18AB | 16N | 107 | P70-G1 | 11N | 89 | | | | | | |
| B1224X | | | SHLD B1224 | | | P70-G2 | | | | | | | | |
| B1225 | 44 | | | 225 | 200 85 | | | 400 370 48 52 846 | | | | | | |
| B1225B | 41 | | TB27- 28 | 16N | 107 | SHLD B1225 | 25N | | | | | | | |
| B1225L | | | P65-T* | 25N | | TB27- 29CD | 16N | 107 | | | | | | |
| B1225R | | | P65-T | 25N | | TB27- 29AB | 16N | 107 | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 146 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | | | | | | |
|---|----------|---|----------------------|---------------|---------------|----------------------|---------------|---------------------|-------------|---|-----|-------------|---|-----|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | | TERMINATION | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | SPEC. | | | SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 3 | ITEM NO. | 1 | NO. | ITEM NO. | 1 | NO. |
| B1226 | 65 | | | 52 | 23 90 91 | | | 225 200 86 87 856 | | | | | | |
| B1226B | 41 | | TB27- 27CD | 16N | 107 | SHLD B1226 | 25N | | | | | | | |
| B1226E | | | P68-F1 | 11N | 89 | TB27- 27AB | 16N | 107 | | | | | | |
| B1226X | | | P68-F2 | | | SHLD B1226 | | | | | | | | |
| B1227 | 41 | | P65-A | 25N | | TB23- 12 | 20N | 111 | | | | | | |
| B1228 | 07 | | | 225 | 200 85 | | | 225 200 117 118 856 | | | | | | |
| B1228B | 41 | | TB19- 39 | 16N | 107 | SHLD B1228 | 25N | | | | | | | |
| B1228X | | | TB10- 4 | 20N | 111 | TB19- 37AB | 16N | 107 | | | | | | |
| B1229 | 47 | | | 225 | 200 49 53 845 | | | 225 200 84 | 7 | | | | | |
| B1229A | 41 | | SHLD B1229 | 25N | | E 27 | 25N | | | | | | | |
| B1229L | | | J17-HH | 25N | | P21-K* | 25N | | | | | | | |
| B1229R | | | J17-GG | 25N | | P21-J* | 25N | | | | | | | |
| B1230 | 47 | | | 225 | 200 84 | | | 225 200 49 53 84 | | | | | | |
| B1230B | 41 | | E 27 | 25N | | SHLD B1230 | 25N | | | | | | | |
| B1230L | | | P21-I* | 25N | | J17-KK | 25N | | | | | | | |
| B1230R | | | P21-H* | 25N | | J17-JJ | 25N | | | | | | | |
| B1232 | 45 | | | 225 | 200 84 | | | 225 200 50 54 84 | | | | | | |
| B1232B | 41 | | E 26 | 25N | | SHLD B1232 | 25N | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 147 OF 188 | | | | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1232L | | P21-Z* | 25N | J24-L | 25N |
| B1232R | | P21-Y* | 25N | J24-K | 25N |
| B1233 | 42 | P17-BB | 25N | P34-S | 25N |
| B1234 | 45 | | 225 200 50 54 845 | | 225 200 84 7 |
| B1234A | 41 | SHLD B1234 | 25N | E 30 | 25N |
| B1234L | | P21-FF | 25N | J25-Q* | 25N |
| B1234M | | P21-EE | 25N | J25-P* | 25N |
| B1235 | 16 | P33-C | 25N | TB24- 9 | 40N 111 |
| B1236 | 42 | TB20- 38AB | 16N 107 | TB24- 3 | 20N 111 |
| B1237 | 42 | TB20- 38CD | 16N 107 | TB24- 7 | 20N 111 |
| B1238 | 178 | TB23- 9 | 40N 179 | TB24- 7 | 40N 179 |
| B1239 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1239B | 41 | TB19- 21 | 16N 107 | SHLD B1239 | 25N |
| B1239L | | P91-W* | 25N | TB19- 20CD | 16N 107 |
| B1239R | | P91-W | 25N | TB19- 20AB | 16N 107 |
| B1240 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1240B | 41 | TB19- 18 | 16N 107 | SHLD B1240 | 25N |
| B1240L | | P91-V* | 25N | TB19- 19CD | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 148 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1240R | | P91-V | 25N | TB19- 19AB | 16N 107 |
| B1243 | 42 | P25-Z | 25N | P34-V | 25N |
| B1245 | 65 | | 50 31 7 | | 225 200 86 87 856 |
| B1245B | 41 | P82-BB | 25N | SHLD B1245 | 25N |
| B1245E | | P58-H | 11Y | P82-AA | 25N |
| B1245X | | P58-L | | SHLD B1245 | |
| B1246 | 65 | | 50 31 7 | | 225 200 86 87 856 |
| B1246B | 41 | P82-Z* | 25N | SHLD B1246 | 25N |
| B1246E | | P57-H | 11Y | P82-Y* | 25N |
| B1246X | | P57-L | | SHLD B1246 | |
| B1251 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1251A | 41 | SHLD B1251 | 25N | P14-H | 25N |
| B1251B | 41 | TB27- 6A | 16N 107 | SHLD B1251 | 25N |
| B1251E | | P14-J | 25N | TB27- 5A | 16N 107 |
| B1252 | 41 | P36-I* | 25N | TB21- 98CD | 16N 107 |
| B1255 | 42 | P36-R | 25N | TB22- 40CD | 16N 107 |
| B1256 | 42 | P34-H | 25N | TB21- 4AB | 16N 107 |
| B1257 | 16 | P20-PP | 25N | TB23- 11 | 20N 111 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 149 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1258 | 16 | TB21- 63AB | 16N 108 | P32-* | 25N |
| B1259 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1259B | 41 | TB27- 10 | 16N 107 | SHLD B1259 | 25N |
| B1259L | | P25-X* | 25N | TB27- 12D | 16N 107 |
| B1259R | | P25-W* | 25N | TB27- 11D | 16N 107 |
| B1260 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1260B | 41 | TB27- 13 | 16N 107 | SHLD B1260 | 25N |
| B1260L | | P25-BB | 25N | TB27- 14A | 16N 107 |
| B1260R | | P25-AA | 25N | TB27- 15A | 16N 107 |
| B1261 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1261B | 41 | TB27- 10 | 16N 107 | SHLD B1261 | 25N |
| B1261L | | P26-A* | 25N | TB27- 9C | 16N 107 |
| B1261R | | P26-Z | 25N | TB27- 8C | 16N 107 |
| B1262 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1262B | 41 | TB27- 4 | 16N 107 | SHLD B1262 | 25N |
| B1262L | | P26-R* | 25N | TB27- 5D | 16N 107 |
| B1262R | | P26-Q* | 25N | TB27- 3D | 16N 107 |
| B1263 | | DELETED | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 150 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|----------------------|-------------------|--|---------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1263B | | DELETED | | | |
| B1263L | | DELETED | | | |
| B1263R | | DELETED | | | |
| B1264 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1264B | 41 | TB27- 10 | 16N 107 | SHLD B1264 | 25N |
| B1264L | | P26-MM | 25N | TB27- 9B | 16N 107 |
| B1264R | | P26-LL | 25N | TB27- 8B | 16N 107 |
| B1265 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1265B | 41 | TB19- 21 | 16N 107 | SHLD B1265 | 25N |
| B1265L | | P 1-D | 25N | TB19- 20CD | 16N 107 |
| B1265R | | P 1-B | 25N | TB19- 20AB | 16N 107 |
| B1266 | 07 | | 225 200 85 7 | | 225 200 117 118 856 |
| B1266B | 41 | TB20- 9 | 16N 107 | SHLD B1266 | 25N |
| B1266M | | TB 5- 2 | 20N 111 | TB20- 10AB | 16N 107 |
| B1267 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1267A | 41 | SHLD B1267 | 25N | P14-V | 25N |
| B1267B | 41 | TB17- 24CD | 16N 107 | SHLD B1267 | 25N |
| B1267E | | P14-U | 25N | TB17- 24AB | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR AR SHEET 151 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. 3 | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. 1 | | ITEM NO. 2 | | ITEM NO. 1 | |
| NO. | | NO. | | NO. | |
| B1268 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1268A | 41 | SHLD B1268 | 25N | P14-A* | 25N |
| B1268B | 41 | TB17- 4CD | 16N 107 | SHLD B1268 | 25N |
| B1268E | | P14-B* | 25N | TB17- 4AB | 16N 107 |
| B1269 | 40 | P23-A | 25N | TB25- 16 | 20N 111 |
| B1270 | 42 | J24-AA | 25N | P37-R* | 25N |
| B1271 | 42 | J24-Z* | 25N | P37-K* | 25N |
| B1272 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1272A | 41 | SHLD B1272 | 25N | P14-N | 25N |
| B1272B | 41 | TB17- 5CD | 16N 107 | SHLD B1272 | 25N |
| B1272E | | P14-M | 25N | TB17- 5AB | 16N 107 |
| B1273 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1273A | 41 | SHLD B1273 | 25N | P14-H* | 25N |
| B1273B | 41 | TB17- 7CD | 16N 107 | SHLD B1273 | 25N |
| B1273E | | P14-I* | 25N | TB17- 7AB | 16N 107 |
| B1274 | 65 | | 225 200 86 87 856 | | 225 200 86 87 856 |
| B1274A | 41 | SHLD B1274 | 25N | P15-Y | 25N |
| B1274B | 41 | TB17- 3CD | 16N 107 | SHLD B1274 | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | |
| SCALE - NONE | | | | REV LTR AR SHEET 152 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|----------------------|--------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. 3 | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. 1 | | ITEM NO. 2 | | ITEM NO. 1 | |
| NO. | | NO. | | NO. | |
| B1274E | | P15-Z | 25N | TB17- 3AB | 16N 107 |
| B1275 | 42 | P25-E* | 25N | J16-CC | 25N |
| B1276 | 42 | P25-F* | 25N | J16-BB | 25N |
| B1277 | 42 | P25-G* | 25N | J16-FF | 25N |
| B1278 | 42 | P25-H* | 25N | J16-EE | 25N |
| B1279 | 42 | P25-I* | 25N | J16-X* | 25N |
| B1280 | 42 | P25-J* | 25N | J16-Y* | 25N |
| B1283 | 42 | J18-MM | 25N | P96-T | 25N |
| B1284 | 42 | J21-V* | 25N | TB21- 5CD | 16N 107 |
| B1285 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1285B | 41 | TB19- 97 | 16N 107 | SHLD B1285 | 25N |
| B1285L | | P26-I* | 25N | TB19- 98CD | 16N 107 |
| B1285R | | P26-H* | 25N | TB19- 98AB | 16N 107 |
| B1286 | 42 | J18-J* | 25N | P92-Z | 25N |
| B1287 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1287B | 41 | TB19- 15 | 16N 107 | SHLD B1287 | 25N |
| B1287L | | J17-FF | 25N | TB19- 16CD | 16N 107 |
| B1287R | | J17-EE | 25N | TB19- 16AB | 16N 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | |
| SCALE - NONE | | | | REV LTR AR SHEET 153 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|----------------------|-------------------|--|-------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. 3 | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. 1 | | ITEM NO. 2 | | ITEM NO. 1 | |
| NO. | | NO. | | NO. | |
| B1289 | 42 | J22-E* | 25N | TB18- 97CD | 16N 107 |
| B1290 | 41 | J25-EE | 25N | P92-K | 25N |
| B1291 | 41 | J25-X* | 25N | P92-E | 25N |
| B1292 | 42 | P25-T* | 25N | TB19- 40CD | 16N 107 |
| B1293 | 41 | TB22- 95AB | 16N 107 | P99-Z | 25N |
| B1294 | 42 | J18-DD | 25N | P99-H | 25N |
| B1295 | 42 | J18-EE | 25N | P99-G | 25N |
| B1297 | 42 | J21-T | 25N | P99-GG | 25N |
| B1298 | 42 | J21-CC | 25N | P98-PP | 25N |
| B1302 | 46 | | 225 200 85 7 | | 400 370 48 52 846 |
| B1302B | 41 | TB19- 18 | 16N 107 | SHLD B1302 | 25N |
| B1302L | | P 3-D | 25N | TB19- 19CD | 16N 107 |
| B1302R | | P 3-B | 25N | TB19- 19AB | 16N 107 |
| B1304 | 46 | | 225 200 48 52 845 | | 225 200 85 7 |
| B1304A | 41 | SHLD B1304 | 25N | E 36 | 25N |
| B1304L | | P32-A* | 25N | J17-H* | 25N |
| B1304R | | P32-A | 25N | J17-G* | 25N |
| B1305 | 42 | J26-V* | 25N | P34-G* | 25N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | |
| SCALE - NONE | | | | REV LTR AR SHEET 154 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----|----------------------|-----------|--|------------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. 3 | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. 1 | | ITEM NO. 2 | | ITEM NO. 1 | |
| NO. | | NO. | | NO. | |
| B1307 | 42 | J26-FF | 25N | P99-U | 25N |
| B1308 | 42 | P25-S* | 25N | TB22- 2AB | 16N 107 |
| B1309 | | DELETED | | | |
| B1309B | | DELETED | | | |
| B1309L | | DELETED | | | |
| B1309R | | DELETED | | | |
| B1310 | | DELETED | | | |
| B1310B | | DELETED | | | |
| B1310L | | DELETED | | | |
| B1310R | | DELETED | | | |
| B1311 | 46 | | 225 85 7A | | 400 48 52 84 6 |
| B1311B | 41 | 800TB22- 36 | 17N 107 | SHLD B1311 | 25N |
| B1311L | | P96-D* | 25N | TB22- 35CD | 17N 107 |
| B1311R | | P96-E* | 25N | TB22- 35AB | 17N 107 |
| B1312 | 99 | | 225 84 7A | | 400 102 104 83 6 |
| B1312B | 41 | 800TB20- 15 | 17N 108 | SHLD B1312 | 25N |
| B1312L | | P21-P* | 25N | TB20- 16CD | 17N 108 |
| B1312R | | P21-N* | 25N | TB20- 16AB | 17N 108 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900943 | |
| SCALE - NONE | | | | REV LTR AR SHEET 155 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------------|---|----------------------|---------------|---------------------|----------|
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1312Y | | P21-O* | 25N | | | TB19- 22AB | 17N | 108 | |
| B1313 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1313B | 41 | 800TB19- 33 | 17N | 107 | | SHLD B1313 | 25N | | |
| B1313L | | P20-Z | 25N | | | TB19- 34 | 17N | 107 | |
| B1313R | | P20-Y | 25N | | | TB19- 35 | 17N | 107 | |
| B1314 | 99 | | 225 | 84 | 7A | | 400 | 102 104 83 6 | |
| B1314B | 41 | 800TB20- 15 | 17N | 108 | | SHLD B1314 | 25N | | |
| B1314L | | P33-J | 25N | | | TB20- 16CD | 17N | 108 | |
| B1314R | | P33-H | 25N | | | TB20- 16AB | 17N | 108 | |
| B1314Y | | P33-G | 25N | | | TB19- 22AB | 17N | 108 | |
| B1315 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1315B | 41 | 800TB20- 91 | 17N | 107 | | SHLD B1315 | 25N | | |
| B1315L | | P26-K* | 25N | | | TB20- 92CD | 17N | 107 | |
| B1315R | | P26-J* | 25N | | | TB20- 92AB | 17N | 107 | |
| B1316 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1316B | 41 | 800TB20- 94 | 17 | 107 | | SHLD B1316 | 25N | | |
| B1316L | | P26-P | 25N | | | TB20- 93CD | 17N | 107 | |
| B1316R | | P26-N | 25N | | | TB20- 93AB | 17N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | |
| | | | | | SCALE - NONE | REV LTR | AR | SHEET 156 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------------|---|----------------------|---------------|---------------------|----------|
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1317 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1317B | 41 | 800TB19- 33 | 17 | 107 | | SHLD B1317 | 25N | | |
| B1317L | | P33-L | 25N | | | TB19- 32CD | 17N | 107 | |
| B1317R | | P33-K | 25N | | | TB19- 32AB | 17N | 107 | |
| B1318 | 46 | | 400 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1318B | 41 | 800TB19- 33 | 17N | 107 | | SHLD B1318 | 25N | | |
| B1318L | | TB18- 8CD | 17N | 107 | | TB19- 32CD | 17N | 107 | |
| B1318R | | TB18- 8AB | 17N | 107 | | TB19- 32AB | 17N | 107 | |
| B1319 | 46 | | 400 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1319B | 41 | 800TB19- 30 | 17N | 107 | | SHLD B1319 | 25N | | |
| B1319L | | TB19- 6CD | 17N | 107 | | TB19- 31CD | 17N | 107 | |
| B1319R | | TB19- 6AB | 17N | 107 | | TB19- 31AB | 17N | 107 | |
| B1320 | 42 | TB19- 22CD | 17N | 107 | | TB20- 16CD | 17N | 107 | |
| B1321 | 42 | TB20- 11AB | 17N | 107 | | TB18- 43 | 17N | 107 | |
| B1322 | 42 | TB18- 48 | 17N | 107 | | TB19- 48 | 17N | 107 | |
| B1323 | 42 | TB19- 41 | 17N | 107 | | TB20- 44 | 17N | 107 | |
| B1324 | 42 | TB20- 47 | 17N | 107 | | TB21- 48 | 17N | 107 | |
| B1325 | 42 | TB20- 47 | 17N | 107 | | TB22- 48 | 17N | 107 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | |
| | | | | | SCALE - NONE | REV LTR | AR | SHEET 157 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------------|---|----------------------|---------------|---------------------|----------|
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1326 | 42 | TB20- 44 | 17N | 107 | | TB21- 44CD | 17N | 107 | |
| B1327 | 42 | P 5-U* | 25N | | | P39-Q* | 25N | | |
| B1328 | 42 | J22-F* | 25N | | | TB18-100AB | 17N | 107 | |
| B1329 | 42 | J22-G* | 25N | | | TB18-100CD | 17N | 107 | |
| B1330 | 42 | J22-H* | 25N | | | TB20- 7AB | 17N | 107 | |
| B1331 | 42 | J22-J* | 25N | | | TB21- 40CD | 17N | 107 | |
| B1332 | 42 | P36-JJ | 25N | | | TB21- 40CD | 17N | 107 | |
| B1333 | 41 | P45-D | 25N | | | P45-E | 25N | | |
| B1334 | 41 | P45-G | 25N | | | P45-F | 25N | | |
| B1335 | 41 | P43-D | 25N | | | P43-E | 25N | | |
| B1336 | 41 | P43-G | 25N | | | P43-F | 25N | | |
| B1337 | 42 | TB24- 7 | 20N | 111 | | TB20- 37CD | 17N | 107 | |
| B1338 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1338B | 41 | 800TB19- 36 | 17N | 107 | | SHLD B1338 | 25N | | |
| B1338L | | J17-DD | 25N | | | TB19- 34 | 17N | 107 | |
| B1338R | | J17-CC | 25N | | | TB19- 35 | 17N | 107 | |
| B1339 | 16 | P20-CC | 25N | | | TB19- 40AB | 17N | 108 | |
| B1340 | 16 | P34-P | 25N | | | TB19- 40AB | 17N | 108 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | |
| | | | | | SCALE - NONE | REV LTR | AR | SHEET 158 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|---------------------|---|----------------------|---------------|---------------------|----------|
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | ITEM NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| B1341 | 16 | P25-S | 25N | | | TB19- 40AB | 17N | 108 | |
| B1344 | 41 | P82-M* | 25N | | | J 3-EE | 25N | | |
| B1345 | 41 | P82-N* | 25N | | | J 3-W* | 25N | | |
| B1346 | 41 | P82-P* | 25N | | | J 3-FF | 25N | | |
| B1347 | 41 | P82-R* | 25N | | | J 3-GG | 25N | | |
| B1348 | | DELETE | | | | | | | |
| B1348B | | DELETE | | | | | | | |
| B1348L | | DELETE | | | | | | | |
| B1348R | | DELETE | | | | | | | |
| B1349 | 46 | | 225 | 85 | 7A | | 400 | 48 52 84 6 | |
| B1349B | 41 | 800TB19- 30 | 17N | 107 | | SHLD B1349 | 25N | | |
| B1349L | | P35-V | 25N | | | TB19- 31CD | 17N | 107 | |
| B1349R | | P35-U | 25N | | | TB19- 31AB | 17N | 107 | |
| B1350 | 42 | P35-Z* | 25N | | | J25-V* | 25N | | |
| B1351 | 45 | | 225 | 84 | 7A | | 300 | 50 54 84 6 | |
| B1351B | 41 | E 50 | 25N | | | SHLD B1351 | 25N | | |
| B1351L | | P17-V | 25N | | | TB 2- 3 | 20N | 111 | |
| B1351R | | P17-U | 25N | | | TB 2- 5 | 20N | 111 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900943 | | |
| | | | | | SCALE - NONE | REV LTR | AR | SHEET 159 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|---|-------------|-----------------------------|--------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. 1 | STRIP WIRE OR JACKET | SPEC. 1 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1352 | 41 | J17-LL | 25N | TB20- 4AB | 16N 107 |
| B1353 | 65 | | 25 | 225 | 86 87 85 6 |
| B1353B | 41 | 800TB25- 11 | 20N 111 | SHLD B1353 | 25N |
| B1353E | | P62-A1 | 12N 89 | TB25- 11 | 20N 111 |
| B1353X | | P62-A2 | | SHLD B1353 | |
| B1354 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1354B | 41 | 800TB27- 1 | 17N 107 | SHLD B1354 | 25N |
| B1354L | | P37-X | 25N | TB27- 2B | 17N 107 |
| B1354R | | P37-Y | 25N | TB27- 2A | 17N 107 |
| B1355 | 7 | | 225 | 120 | 7A 225 117118 85 6 |
| B1355B | 41 | 800TB27- 1 | 17N 107 | SHLD B1355 | 25N |
| B1355W | | P37-U | 25N | TB27- 2D | 17N 107 |
| B1356 | 7 | | 225 | 120 | 7A 225 117118 85 6 |
| B1356B | 41 | 800TB27- 1 | 17N 107 | SHLD B1356 | 25N |
| B1356W | | P37-V | 25N | TB27- 2C | 17N 107 |
| B1357 | 7 | | 225 | 120 | 7A 225 117118 85 6 |
| B1357B | 41 | 800TB27- 4 | 17N 107 | SHLD B1357 | 25N |
| B1357W | | P37-S | 25N | TB27- 3B | 17N 107 |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| | | SCALE: NONE | | REV LTR AR SHEET 160 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|---|-------------|-----------------------------|--------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. 1 | STRIP WIRE OR JACKET | SPEC. 1 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1358 | 7 | | 225 | 120 | 7A 225 117118 85 6 |
| B1358B | 41 | 800TB27- 4 | 17N 107 | SHLD B1358 | 25N |
| B1358W | | P37-T | 25N | TB27- 3A | 17N 107 |
| B1359 | 41 | TB19- 50CD | 17N 107 | TB27- 2B | 17N 107 |
| B1360 | 16 | P90-M | 25N | TB25- 7 | 20N 111 |
| B1361 | | DELETE | | | |
| B1362 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1362B | 41 | 800TB19- 7B | 17N 107 | SHLD B1362 | 25N |
| B1362L | | J25-U* | 25N | TB19- 77CD | 17N 107 |
| B1362R | | J25-T* | 25N | TB19- 77AB | 17N 107 |
| B1363 | 42 | J18-CC | 25N | TB22- 95AB | 17N 107 |
| B1364 | 41 | J16-F* | 25N | TB22- 96 | 17N 107 |
| B1365 | 41 | P35-Y* | 25N | TB22- 96 | 17N 107 |
| B1366 | 42 | P92-G | 25N | J25-FF | 25N |
| B1367 | 42 | P92-H | 25N | J25-BB | 25N |
| B1368 | 42 | P92-J | 25N | J25-AA | 25N |
| B1369 | 42 | P34-D | 25N | P20-A* | 25N |
| B1370 | 42 | P37-FF | 25N | TB19- 2AB | 17N 107 |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| | | SCALE: NONE | | REV LTR AR SHEET 161 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|---|-------------|-----------------------------|-------------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. 1 | STRIP WIRE OR JACKET | SPEC. 1 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1371 | 41 | P24-E* | 25N | TB 8- 5 | 20N 111 |
| B1372 | 41 | P34-Y | 25N | TB 8- 4 | 20N 111 |
| B1373 | 41 | P38-C | 25N | TB20- 11CD | 17N 107 |
| B1376 | 46 | | 225 | 85 | 7A 400 48 52 84 6 |
| B1376B | 41 | 800TB18- 39 | 17N 107 | SHLD B1376 | 25N |
| B1376L | | P26-MH | 25N | TB18- 40CD | 17N 107 |
| B1376R | | P26-GG | 25N | TB18- 40AB | 17N 107 |
| B1377 | 42 | P20-MH | 25N | TB22- 40CD | 17N 107 |
| B1378 | 42 | TB21- 40AB | 17N 107 | TB21- 5AB | 17N 107 |
| B1379 | 42 | P96-M* | 25N | TB21- 5AB | 17N 107 |
| B1380 | 42 | P96-P* | 25N | P24-T | 17N |
| B1381 | 42 | P24-U | 25N | TB21- 5AB | 17N 107 |
| B1382 | 40 | J26-X | 20N | TB25- 12 | 20N 111 |
| B1383 | 40 | J26-Y | 20N | TB25- 12 | 20N 111 |
| B1384 | 40 | J26-Z | 20N | TB25- 13 | 20N 111 |
| B1385 | 40 | TB13- 2 | 20N 111 | TB25- 13 | 20N 111 |
| B1386 | 42 | J23-EE | 25N | TB19- 89AB | 17N 107 |
| B1387 | 42 | J23-FF | 25N | TB19- 89CD | 17N 107 |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| | | SCALE: NONE | | REV LTR AR SHEET 162 OF 188 | |

| CONDUCTOR | | FROM | | TO | |
|---|----------|---|-------------|-----------------------------|----------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. 1 | STRIP WIRE OR JACKET | SPEC. 1 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B1388 | 42 | J23-GG | 25N | TB19- 90AB | 17N 107 |
| B1389 | 42 | J23-MH | 25N | TB19- 90CD | 17N 107 |
| B1390 | 42 | J23-U* | 25N | TB19- 92AB | 17N 107 |
| B1391 | 42 | J23-V* | 25N | TB19- 92CD | 17N 107 |
| B1392 | 42 | J23-W* | 25N | TB19- 93AB | 17N 107 |
| B1393 | 42 | J23-X* | 25N | TB19- 93CD | 17N 107 |
| B1394 | 42 | J23-AA | 25N | TB19- 95AB | 17N 107 |
| B1395 | 42 | J23-BB | 25N | TB19- 95CD | 17N 107 |
| B1396 | 42 | J23-CC | 25N | TB19- 96AB | 17N 107 |
| B1397 | 42 | J23-DD | 25N | TB19- 96CD | 17N 107 |
| B1398 | 65 | | 23 | 91 90 | 225 86 87 85 6 |
| B1398B | | DELETE | | | |
| B1398E | 65 | P52-M | 12N 89 | P65-J* | 12N |
| B1398X | | P52-L | | SHLD B1398 | |
| B1399 | 42 | P99-JJ | 25N | J16-LL | 25N |
| B1400 | 42 | P99-MH | 25N | J16-MH | 25N |
| B1401 | 42 | P99-LL | 25N | J16-PP | 25N |
| B1402 | 42 | P99-KK | 25N | J16-NN | 25N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900943 | |
| | | SCALE: NONE | | REV LTR AR SHEET 163 OF 188 | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----|---|------------------------|--------|--|-----|---|------------------------|----------------|
| CONDUCTOR INDIVIDUAL LENGTH NUMBER ITEM NO. | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| B1403 | 41 | J25-B | 25N | | | | TB23- 4 | 20N | 111 |
| B1404 | 41 | J17-B | 25N | | | | TB23- 1 | 20N | 111 |
| B1405 | 41 | J24-B | 25N | | | | TB23- 4 | 20N | 111 |
| B1406 | 41 | J16-B | 25N | | | | TB23- 1 | 20N | 111 |
| B1408 | 41 | J26-K* | 25N | | | | TB21- 4AB | 17N | 107 |
| B1409 | 41 | J16-KK | 25N | | | | TB 9- 6 | 20N | 111 |
| B1410 | 16 | J 4-T* | 25N | | | | TB23- 16 | 20N | 111 |
| B1411 | 46 | | 225 | 200 85 | 7 | | | 400 | 970 48 52 84 6 |
| B1411B | 41 | TB17-100 | 16N | 107 | | | SMLD B1411 | 25N | |
| B1411L | | P85-LL | 25N | | | | TB17- 99CD | 16N | 107 |
| B1411R | | P85-KK | 25N | | | | TB17- 99AB | 16N | 107 |
| B1412 | 46 | | 225 | 200 85 | 7 | | | 400 | 970 48 52 84 6 |
| B1412B | 41 | TB19- 33 | 16N | 107 | | | SMLD B1412 | 25N | |
| B1412L | | P35-R | 25N | | | | TB19- 32CD | 16N | 107 |
| B1412R | | P35-P | 25N | | | | TB19- 32AB | 16N | 107 |
| B1413 | 46 | | 225 | 200 85 | 7 | | | 400 | 970 48 52 84 6 |
| B1413B | 41 | TB18- 36 | 16N | 107 | | | SMLD B1413 | 25N | |
| B1413L | | P32-MM | 25N | | | | TB18- 35CD | 16N | 107 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 164 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----|---|------------------------|--------|--|-----|---|------------------------|----------------|
| CONDUCTOR INDIVIDUAL LENGTH NUMBER ITEM NO. | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| B1413R | | P32-PP | 25N | | | | TB18- 35AB | 16N | 107 |
| B1414 | 46 | | 225 | 200 85 | 7 | | | 400 | 970 48 52 84 6 |
| B1414B | 41 | TB18- 30 | 16N | 107 | | | SMLD B1414 | 25N | |
| B1414L | | P32-FF | 25N | | | | TB18- 31CD | 16N | 107 |
| B1414R | | P32-MM | 25N | | | | TB18- 31AB | 16N | 107 |
| B1415 | 46 | | 225 | 200 85 | 7 | | | 400 | 970 48 52 84 6 |
| B1415B | 41 | TB18- 33 | 16N | 107 | | | SMLD B1415 | 25N | |
| B1415L | | P32-Z | 25N | | | | TB18- 32CD | 16N | 107 |
| B1415R | | P32-Y | 25N | | | | TB18- 32AB | 16N | 107 |
| B1416 | 42 | P33-M | 25N | | | | P34-Z* | 25N | |
| B1417 | 42 | P33-N | 25N | | | | P34-AA | 25N | |
| B1418 | 42 | P33-P | 25N | | | | P34-BB | 25N | |
| B1419 | 42 | P33-R | 25N | | | | J22-K | 25N | |
| B1420 | 42 | J22-R | 25N | | | | TB21- 63CD | 16N | 107 |
| B1421 | 42 | J22-P | 25N | | | | TB21- 60CD | 16N | 107 |
| B1422 | 42 | J22-N | 25N | | | | TB21- 56 | 16N | 107 |
| B1425 | 41 | J 3-D* | 25N | | | | TB23- 15 | 20N | 111 |
| B1426 | 41 | J4-U | 25N | | | | TB23- 16 | 20N | 111 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 165 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----|---|------------------------|-----|--|-----|---|------------------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH NUMBER ITEM NO. | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| B1427 | 41 | J18-B | 25N | | | | TB23- 2 | 20N | 111 |
| B1428 | 41 | J19-J* | 25N | | | | TB23- 2 | 20N | 111 |
| B1429 | 41 | J20-H | 25N | | | | TB23- 3 | 20N | 111 |
| B1430 | 41 | J21-B | 25N | | | | TB23- 3 | 20N | 111 |
| B1431 | 41 | J26-B | 25N | | | | TB23- 5 | 20N | 111 |
| B1432 | 42 | P98-F | 25N | | | | TB17- 89AB | 16N | 107 |
| B1433 | 41 | TB12- 10 | 20N | 111 | | | TB17- 89CD | 16N | 107 |
| B1434 | | DELETED | | | | | | | |
| B1435 | | DELETED | | | | | | | |
| B1436 | | DELETED | | | | | | | |
| B1437 | | DELETED | | | | | | | |
| B1438 | | DELETED | | | | | | | |
| B1439 | | DELETED | | | | | | | |
| B1440 | | DELETED | | | | | | | |
| B1441 | | DELETED | | | | | | | |
| B1442 | 16 | E 25 | 25N | | | | E 27 | 25N | |
| B1443 | 16 | E 26 | 25N | | | | E 27 | 25N | |
| B1444 | 16 | TB23- 25 | 20N | 111 | | | E 27 | 25N | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 166 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----|---|------------------------|-----|--|-----|---|------------------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH NUMBER ITEM NO. | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| B1445 | 16 | E 28 | 25N | | | | E 31 | 25N | |
| B1446 | 16 | E 29 | 25N | | | | E 31 | 25N | |
| B1447 | 16 | E 30 | 25N | | | | E 31 | 25N | |
| B1448 | 16 | TB23- 25 | 20N | 111 | | | E 31 | 25N | |
| B1449 | 16 | TB23- 23 | 20N | 111 | | | E 32 | 25N | |
| B1450 | 16 | TB23- 22 | 20N | 111 | | | E 33 | 25N | |
| B1451 | 16 | E 34 | 25N | | | | E 37 | 25N | |
| B1452 | 16 | E 35 | 25N | | | | E 37 | 25N | |
| B1453 | 16 | E 36 | 25N | | | | E 37 | 25N | |
| B1454 | 16 | TB23- 24 | 20N | 111 | | | E 37 | 25N | |
| B1455 | 16 | TB23- 23 | 20N | 111 | | | E 38 | 25N | |
| B1456 | 16 | TB 4- 6 | 20N | 111 | | | E 39 | 25N | |
| B1457 | 16 | E 40 | 25N | | | | E 42 | 25N | |
| B1458 | 16 | E 41 | 25N | | | | E 42 | 25N | |
| B1459 | 16 | TB23- 19 | 20N | 111 | | | E 42 | 25N | |
| B1460 | 16 | E 43 | 25N | | | | E 54 | 25N | |
| B1461 | 16 | TB 9- 10 | 20N | 111 | | | E 44 | 25N | |
| B1462 | 16 | E 45 | 25N | | | | TB 6- 7 | 20N | 111 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR AR SHEET 167 OF 188 | | | | |

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| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1463 | 16 | TB11- 6 | 20M | 111 | | E 46 | 25M | | |
| B1464 | 16 | E 47 | 25M | | | E 58 | 25M | | |
| B1465 | 16 | E 48 | 25M | | | E 31 | 25M | | |
| B1466 | 42 | J22-M | 25M | | | TB20- 5AB | 16M | 107 | |
| B1467 | 41 | J18-C | 25M | | | TB 1- 6 | 25M | 111 | |
| B1468 | 46 | | 225 | 200 85 | 7 | | 400 | 370 48 52 84 6 | |
| B1468B | 41 | TB20- 69 | 16M | 107 | | SHLD B1468 | | | |
| B1468L | | P99-X* | 25M | | | TB20- 70 | 16M | 107 | |
| B1468R | | P99-Y* | 25M | | | TB20- 71 | 16M | 107 | |
| B1469 | 46 | | 225 | 200 85 | 7 | | 225 | 200 48 52 84 5 | |
| B1469B | 41 | E 30 | 25M | | | SHLD B1469 | | | |
| B1469L | | P99-A | 25M | | | P21-V | 25M | | |
| B1469R | | P99-B | 25M | | | P21-W | 25M | | |
| B1470 | 16 | E 49 | 25M | | | E 51 | 25M | | |
| B1471 | 16 | TB 2- 7 | 20M | 111 | | E 51 | 25M | | |
| B1472 | 16 | E 50 | 25M | | | E 51 | 25M | | |
| B1473 | 16 | E 52 | 25M | | | E 54 | 25M | | |
| B1474 | 16 | TB 4- 5 | 20M | 111 | | E 54 | 25M | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SCALE-NONE

SIZE

A

1900943

REV LTR AR

SHEET 168 OF 188

| GMI | | | | | | | | | | WIRING HARNESS B | | | | | | | | | | AR | | | | | | | | | | 1900943 | | | | | | | | | |
|---|----|----------|----|----------------------|-----|---------------|--------|-------------------|---|--|-------|--------------------|-----|---------------|----------------|-------------------|--|------------------|--|----|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | | | | | | | | | | | | | | | | | | |
| B1475 | 16 | E | 53 | | 25M | | | | | E | 54 | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1476 | 16 | E | 55 | | 25M | | | | | E | 56 | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1477 | 16 | TB23- | 21 | | 20M | | 111 | | | E | 56 | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1478 | 16 | E | 57 | | 25M | | | | | E | 58 | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1479 | 16 | TB15- | 5 | | 20M | | 111 | | | E | 58 | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1480 | 42 | P40-S* | | | 25M | | | | | P47-M* | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1481 | 42 | P90-C | | | 25M | | | | | P34-Z | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1482 | 42 | P90-D | | | 25M | | | | | P25-W | | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1483 | 41 | J22-I* | | | 25M | | | | | TB21- | 4CD | | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1484 | 42 | P21-U | | | 25M | | | | | TB20- | 5AB | | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1485 | 42 | P33-S | | | 25M | | | | | TB20- | 5AB | | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1486 | 41 | E | 59 | | 25M | | | | | TB23- | 20 | | 25M | | 111 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1487 | 40 | J26-C | | | 25M | | 157 | | | TB | 9- 1 | | 20M | | 111 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1488 | 40 | J26-D | | | 25M | | 157 | | | TB12- | 10 | | 20M | | 111 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1489 | 46 | | | | 225 | | 200 85 | | 7 | | | | 400 | | 370 48 52 84 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1489B | 41 | TB19- | 7 | | 16M | | 107 | | | SHLD | B1489 | | 25M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B1489L | | P21-D | | | 25M | | | | | TB19- | 6CD | | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| B1489R | | P21-C | | | 25M | | | | | TB19- | 6AB | | 16M | | 107 | | | | | | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900943 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | SCALE-NONE | | | | REV LTR | | AR | | SHEET 169 OF 188 | | | | | | | | | | | | | | | | | | | | | |

GMI

WIRING HARNESS B

AR

1900943

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|-----------------------|---------------|-------------------|----|---|---------------|---|------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | STRIIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | STRIIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| B1490 | | TB27- 10 | 16M | 107 | | E 22 | 25M | | |
| B1491 | | TB27- 22 | 16M | 107 | | E 22 | 25M | | |
| B1492 | | TB27- 28 | 16M | 107 | | E 22 | 25M | | |
| B1493 | 41 | TB20- 11CD | 17M | 107 | | TB 9- 6 | 20M | 111 | |
| B1494 | 42 | P16-V | 25M | | | P16-X | 25M | | |
| B1495 | 42 | P16-Z | 25M | | | P16-B* | 25M | | |
| B1496 | 42 | P16-N* | 25M | | | P17-G | 25M | | |
| B1497 | 42 | P16-G | 25M | | | P16-J | 25M | | |
| B1498 | 42 | P16-L | 25M | | | P16-N | 25M | | |
| B1499 | 42 | P16-R | 25M | | | P17-K* | 25M | | |
| B1500 | 42 | P16-D* | 25M | | | P16-G* | 25M | | |
| B1501 | 42 | P16-C | 25M | | | P16-E | 25M | | |
| B1502 | 7 | | 225M | 200120 | 7A | | 225M | 200117118 | 85 6 |
| B1502B | 41 | TB19- 39 | 25M | 107 | | SHLD B1502 | 25M | | |
| B1502M | | TB 3- 9 | 20M | 111 | | TB19- 38AB | 16M | 107 | |
| B1503 | 41 | TB25- 20 | 20M | 111 | | TB19- 38CD | 16M | 107 | |
| B1504 | 16 | P43-B | 25M | | | P43-C | 25M | | |
| B1505 | 16 | P45-B | 25M | | | P45-C | 25M | | |
| <div> <div>1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> | | | | | | <div> <div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</div> <div>SCALE-NONE</div> </div> | | <div> <div>SIZE</div> <div>A</div> </div> <div> <div>1900943</div> <div>REV LTR AR</div> </div> | |
| SHEET 170 OF 188 | | | | | | | | | |

GMT

WIRING HARNESS B

AR

1900943

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | NO. | TO | NO. | | | | |
|--------------------------------|----------|--|--------|----------------------|-----|--|--------|----------------------|------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | T N | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | T N | TERMINATION SPEC. | NO. |
| | | CIRCUIT POINT | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | |
| B1506 | 41 | E 60 | 25M | | | E 63 | 25M | | |
| B1507 | 41 | E 61 | 25M | | | TB23- 26 | 20M | 111 | |
| B1508 | 41 | E 62 | 25M | | | TB23- 27 | 20M | 111 | |
| B1509 | 41 | E 63 | 25M | | | TB23- 29 | 20M | 111 | |
| B1510 | 42 | P37-M | 25M | | | TB27-8A | 16M | 108 | |
| B1511 | 42 | P 5-B | 25M | | | TB18-83AB | 16M | 107 | |
| B1512 | 42 | P 5-T* | 25M | | | TB18-83CD | 16M | 107 | |
| B1513 | 7 | | 225M | 200120 | 7A | | 225M | 200117118 | 85 6 |
| B1513A | 41 | SHLD B1513 | 25M | | | E 26 | 25M | | |
| B1513M | | J22-A | 25M | | | P11-U | 25M | | |
| B1514 | | DELETED | | | | | | | |
| B1515 | | DELETED | | | | | | | |
| B1515L | | DELETED | | | | | | | |
| B1515R | | DELETED | | | | | | | |
| B1515Y | | DELETED | | | | | | | |
| B1516 | | DELETED | | | | | | | |
| B1517 | | DELETED | | | | | | | |
| B1517L | | DELETED | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900943

SCALE-NONE

REV LTR

AR

SHEET 171 OF 188

GMI WIRING HARNESS B AR 1900943

| CONDUCTOR | | | | FROM | | | | TO | | | | | | | |
|----------------------|----------|--|--|--------------------|--|--|--|----------------------|--|--|--|-------------------|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | | | |
| STRIP WIRE OR JACKET | | | | TERMINATION SPEC. | | | | STRIP WIRE OR JACKET | | | | TERMINATION SPEC. | | | |
| CIRCUIT POINT | | | | ITEM NO. | | | | CIRCUIT POINT | | | | ITEM NO. | | | |
| NUMBER | ITEM NO. | | | | | | | | | | | | | | |
| B1517R | | | | DELETED | | | | | | | | | | | |
| B1517Y | | | | DELETED | | | | | | | | | | | |
| B1518 | | | | DELETED | | | | | | | | | | | |
| B1519 | | | | DELETED | | | | | | | | | | | |
| B1519L | | | | DELETED | | | | | | | | | | | |
| B1519R | | | | DELETED | | | | | | | | | | | |
| B1519Y | | | | DELETED | | | | | | | | | | | |
| B1520 | | | | DELETED | | | | | | | | | | | |
| B1521 | | | | DELETED | | | | | | | | | | | |
| B1521L | | | | DELETED | | | | | | | | | | | |
| B1521R | | | | DELETED | | | | | | | | | | | |
| B1521Y | | | | DELETED | | | | | | | | | | | |
| B1522 | | | | DELETED | | | | | | | | | | | |
| B1523 | | | | DELETED | | | | | | | | | | | |
| B1523L | | | | DELETED | | | | | | | | | | | |
| B1523R | | | | DELETED | | | | | | | | | | | |
| B1523Y | | | | DELETED | | | | | | | | | | | |
| B1524 | | | | DELETED | | | | | | | | | | | |

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900943

SCALE - NONE

REV LTR AR

SHEET 172 OF 188

GMI WIRING HARNESS B AR 1900943

| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|----|--|----------------------|-----|--------|-------------|-----|--------------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| ITEM NO. 1 | | | STRIP WIRE OR JACKET | | | SPEC. 1 | | |
| CIRCUIT POINT 2 | | | ITEM NO. 1 | | | ITEM NO. 1 | | |
| B1525 | | | DELETED | | | | | |
| B1525L | | | DELETED | | | | | |
| B1525R | | | DELETED | | | | | |
| B1525Y | | | DELETED | | | | | |
| B1526 | | | DELETED | | | | | |
| B1527 | | | DELETED | | | | | |
| B1527L | | | DELETED | | | | | |
| B1527R | | | DELETED | | | | | |
| B1527Y | | | DELETED | | | | | |
| B1528 | | | DELETED | | | | | |
| B1529 | 42 | | P37-P | 25M | | TB27-9A | 16M | 108 |
| B1530 | | | DELETED | | | | | |
| B1530L | | | DELETED | | | | | |
| B1530R | | | DELETED | | | | | |
| B1530Y | | | DELETED | | | | | |
| B1531 | 7 | | | 225 | 20G120 | | 225 | 200117118 85 |
| B1531B | 41 | | TB20- 69 | 16M | 107 | SHLD B1531 | 25M | |
| B1531W | | | P26-T | 25M | | TB20-68AB | 16M | 107 |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

HANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900943

SCALE-NONE

REV LTR AR

SHEET 173 OF 188

GMI WIRING HARNESS B AR 1900943

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|-----|---|--|---|-------------------|---|------------------|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| B1532 | 47 | | | 225 | 200 | 85 | | | | | | | |
| B1532B | 41 | T821- 1 | 16N | 107 | | | | | | | | | |
| B1532L | | J17-L | 25N | | | | | | | | | | |
| B1532R | | J17-K | 25N | | | | | | | | | | |
| B1533 | 7 | | | 225 | 200 | 120 | | | | | | | |
| B1533B | 41 | T820- 69 | 16N | 107 | | | | | | | | | |
| B1533W | | P26-U | 25N | | | | | | | | | | |
| B1534 | 47 | | | 225 | 200 | 85 | | | | | | | |
| B1534B | 41 | T821- 1 | 16N | 107 | | | | | | | | | |
| B1534L | | P35-H* | 25N | | | | | | | | | | |
| B1534R | | P35-I* | 25N | | | | | | | | | | |
| B1535 | 42 | P96-PP | 25N | | | | | | | | | | |
| B1536 | 42 | P96-MM | 25N | | | | | | | | | | |
| B1537 | 42 | P96-LL | 25N | | | | | | | | | | |
| B1538 | 42 | P96-NN | 25N | | | | | | | | | | |
| B1539 | 42 | P92-PP | 25N | | | | | | | | | | |
| B1540 | 42 | P92-NN | 25N | | | | | | | | | | |
| B1541 | 41 | P37-W | 25N | | | | | | | | | | |
| | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | | 1900943 | |
| | | | | | | | | A | | | | | |
| | | | | | | | | SCALE-NONE | | REV LTR | | AR | |
| | | | | | | | | | | | | SHEET 174 OF 180 | |

GMI WIRING HARNESS B ~~AA~~AV 1900943

| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|----------|---|---|----------------------|----------|----|----|----------------------|----------|---|---|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | |
| STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| NUMBER | ITEM NO. | 1 | 2 | CIRCUIT POINT | ITEM NO. | 1 | 2 | CIRCUIT POINT | ITEM NO. | 1 | 2 |
| B1542 | 65 | | | | 52 | 23 | 90 | 91 | 7 | | |
| B1542B | 42 | | | TB17-17CD | 16M | | | 107 | | | |
| B1542E | | | | P68-D1 | 11M | | | 89 | | | |
| B1542X | | | | P68-D2 | | | | | | | |
| B1543 | 42 | | | P99-MM | 25M | | | | | | |
| B1544 | 42 | | | DELETED | 25M | | | | | | |
| B1545 | 42 | | | J26-EE | 25M | | | | | | |
| B1546 | 42 | | | P33-F | 25M | | | | | | |
| B1547 | 41 | | | P24-C | 25M | | | | | | |
| B1548 | 41 | | | P24-D | 25M | | | | | | |
| B1549 | 41 | | | P34-M* | 25M | | | | | | |
| B1550 | 41 | | | J16-M | 25M | | | | | | |
| B1551 | 41 | | | J16-A | 25M | | | | | | |
| B1552 | 41 | | | J16-R | 25M | | | | | | |
| B1553 | 41 | | | J16-P | 25M | | | | | | |
| B1554 | | | | DELETED | | | | | | | |
| B1555 | 41 | | | TB 1- 7 | 20M | | | 111 | | | |
| B1556 | 41 | | | TB 1- 7 | 20M | | | 111 | | | |

1 > THE "D" CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900943

SCALE-NONE

REV LTR

AA-A/V

SHEET 175 OF 180

| GMI WIRING HARNESS B AT 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|----------------------|---------------|---|---------------|----------------------|---------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B1557 | 41 | 20N | 111 | P26-U* | 25N | | | | |
| B1558 | 10 | 20N | | | | | | | |
| B1559 | 10 | 20N | | | | | | | |
| B1560 | 41 | 20N | | | | | | | |
| B1561 | 41 | P35-AA | | TB17- 90AB | 16N | 107 | | | |
| B1562 | 46 | 225 | 200 85 | 400N | 970 | 48 52 84 | | | |
| B1562B | 41 | TB17- 94 | 16N | 107 | SHLD B1562 | 25N | | | |
| B1562L | | P9-T* | 25N | | TB17- 93CD | 16N | 107 | | |
| B1562R | | P9-S* | 25N | | TB17- 93AB | 16N | 107 | | |
| B1563 | 16 | J19-A | 25N | | E 81 | 25N | | | |
| B1564 | 16 | P37-J | 25N | | E 82 | 25N | | | |
| B1565 | 16 | J19-S* | 25N | | E 83 | 25N | | | |
| B1566 | 16 | P37-G | 25N | | E 84 | 25N | | | |
| B1567 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1567A | 41 | SHLD B1567 | 25N | | E 97 | 25N | | | |
| B1567L | | E 83 | 25N | | E 84 | 25N | | | |
| B1567R | | E 81 | 25N | | E 82 | 25N | | | |
| B1568 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900943 | | | |
| SCALE - NONE | | | | | | REV LTR AR SHEET 176 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|----------------------|---------------|---|---------------|----------------------|---------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B1568A | 41 | SHLD B1568 | 25N | | E 97 | 25N | | | |
| B1568L | | E 83 | 25N | | E 84 | 25N | | | |
| B1568R | | E 81 | 25N | | E 82 | 25N | | | |
| B1569 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1569A | 41 | SHLD B1569 | 25N | | E 97 | 25N | | | |
| B1569L | | E 83 | 25N | | E 84 | 25N | | | |
| B1569R | | E 81 | 25N | | E 82 | 25N | | | |
| B1570 | 16 | J19-B | 25N | | E 85 | 25N | | | |
| B1571 | 16 | P37-F | 25N | | E 86 | 25N | | | |
| B1572 | 16 | J19-T* | 25N | | E 87 | 25N | | | |
| B1573 | 16 | P37-H | 25N | | E 88 | 25N | | | |
| B1574 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1574A | 41 | SHLD B1574 | 25N | | E 97 | 25N | | | |
| B1574L | | E 87 | 25N | | E 88 | 25N | | | |
| B1574R | | E 85 | 25N | | E 86 | 25N | | | |
| B1575 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1575A | 41 | SHLD B1575 | 25N | | E 97 | 25N | | | |
| B1575L | | E 87 | 25N | | E 88 | 25N | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900943 | | | |
| SCALE - NONE | | | | | | REV LTR AR SHEET 177 OF 188 | | | |

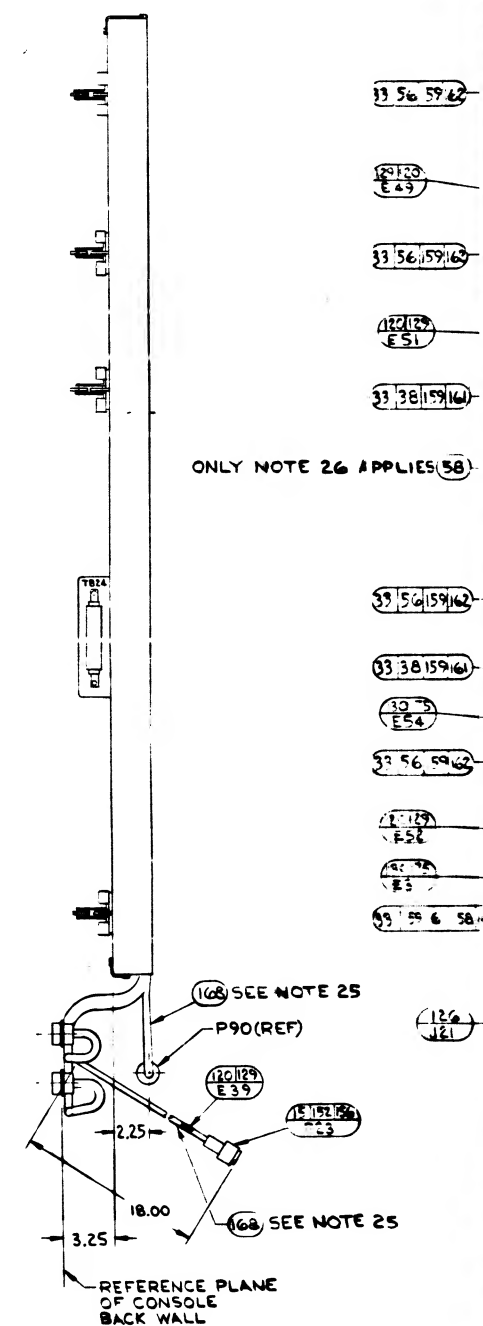
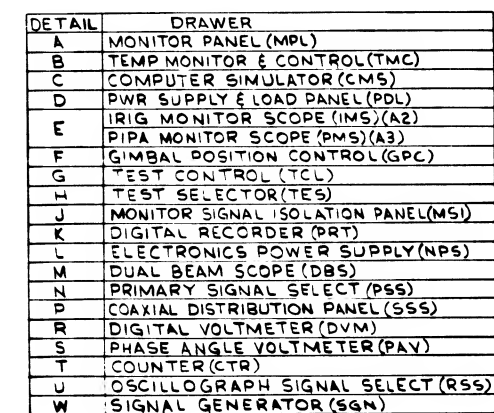
| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|----------------------|---------------|---|---------------|----------------------|---------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B1575R | | E 85 | 25N | | E 86 | 25N | | | |
| B1576 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1576A | 41 | SHLD B1576 | 25N | | E 97 | 25N | | | |
| B1576L | | E 87 | 25N | | E 88 | 25N | | | |
| B1576R | | E 85 | 25N | | E 86 | 25N | | | |
| B1577 | 16 | J19-E* | 25N | | E 89 | 25N | | | |
| B1578 | 16 | P11-M | 25N | | E 90 | 25N | | | |
| B1579 | 16 | J19-F* | 25N | | E 91 | 25N | | | |
| B1580 | 16 | P11-L | 25N | | E 92 | 25N | | | |
| B1581 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1581A | 41 | SHLD B1581 | 25N | | E 98 | 25N | | | |
| B1581L | | E 91 | 25N | | E 92 | 25N | | | |
| B1581R | | E 89 | 25N | | E 90 | 25N | | | |
| B1582 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1582A | 41 | SHLD B1582 | 25N | | E 98 | 25N | | | |
| B1582L | | E 91 | 25N | | E 92 | 25N | | | |
| B1582R | | E 89 | 25N | | E 90 | 25N | | | |
| B1583 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900943 | | | |
| SCALE - NONE | | | | | | REV LTR AR SHEET 178 OF 188 | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|--|----------|----------------------|---------------|----------------------|---------------|---|---------------|----------------------|---------------|
| CONDUCTOR | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT |
| B1583A | 41 | SHLD B1583 | 25N | | E 98 | 25N | | | |
| B1583L | | E 91 | 25N | | E 92 | 25N | | | |
| B1583R | | E 89 | 25N | | E 90 | 25N | | | |
| B1584 | 16 | J19-Q* | 25N | | E 93 | 25N | | | |
| B1585 | 16 | P11-N | 25N | | E 94 | 25N | | | |
| B1586 | 16 | J19-R* | 25N | | E 95 | 25N | | | |
| B1587 | 16 | P11-P | 25N | | E 96 | 25N | | | |
| B1588 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1588A | 41 | SHLD B1588 | 25N | | E 98 | 25N | | | |
| B1588L | | E 95 | 25N | | E 96 | 25N | | | |
| B1588R | | E 93 | 25N | | E 94 | 25N | | | |
| B1589 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1589A | 41 | SHLD B1589 | 25N | | E 98 | 25N | | | |
| B1589L | | E 95 | 25N | | E 96 | 25N | | | |
| B1589R | | E 93 | 25N | | E 94 | 25N | | | |
| B1590 | 45 | 225 | 200 50 54 84 | 225 | 200 | 84 | | | |
| B1590A | 41 | SHLD B1590 | 25N | | E 98 | 25N | | | |
| B1590L | | E 95 | 25N | | E 96 | 25N | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900943 | | | |
| SCALE - NONE | | | | | | REV LTR AR SHEET 179 OF 188 | | | |

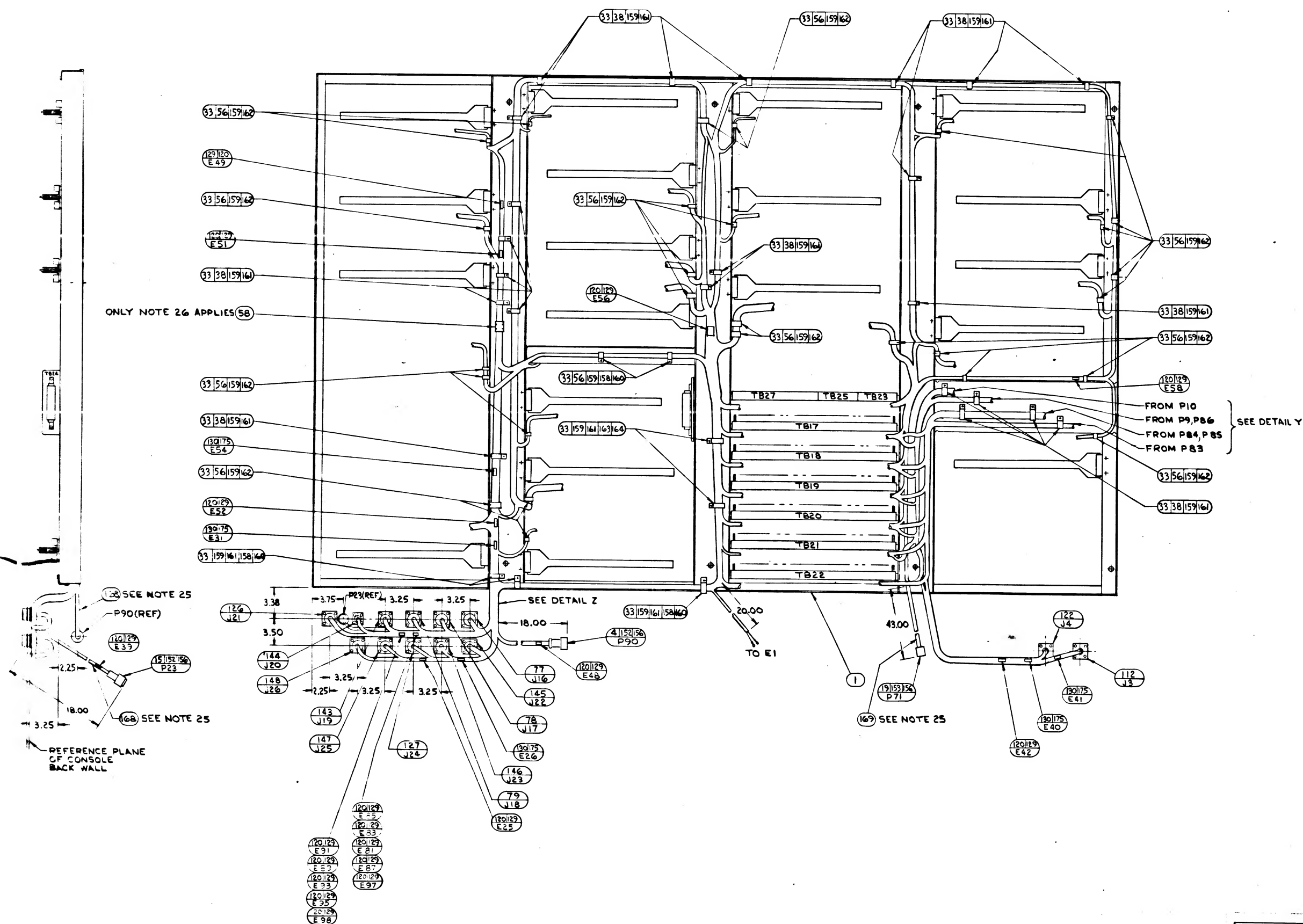
| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|------------------|-------------|--|----------------------|------------------|-------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1590R | | E 93 | 25N | | | E 94 | 25N | | |
| B1591 | 16 | E 97 | 25N | | | E 98 | 25N | | |
| B1592 | 16 | J19-V | 25N | | | E 97 | 25N | | |
| B1594 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1594A | 41 | SHLD B1594 | 25N | | | P14-B | 25N | | |
| B1594B | 41 | TB17- 9CD | 16N 107 | | | SHLD B1594 | 25N | | |
| B1594E | | P14-C | 25N | | | TB17- 9AB | 16N 107 | | |
| B1595 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1595B | 41 | TB17- 9CD | 16N 107 | | | SHLD B1595 | 25N | | |
| B1595E | | P94-A1 | 11N 89 | | | TB17- 9AB | 16N 107 | | |
| B1595K | | P94-A2 | | | | SHLD B1595 | | | |
| B1596 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1596A | 41 | SHLD B1596 | 25N | | | P14-K* | 25N | | |
| B1596B | 41 | TB17- 11CD | 16N 107 | | | SHLD B1596 | 25N | | |
| B1596E | | P14-J* | 25N | | | TB17- 11AB | 16N 107 | | |
| B1597 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1597B | 41 | TB17- 11CD | 16N 107 | | | SHLD B1597 | 25N | | |
| B1597E | | P94-B1 | 11N 89 | | | TB17- 11AB | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS A 1900943 SCALE-NONE REV LTR AR SHEET 180 OF 188 | | | | |

| GMI WIRING HARNESS B AR 1900943 | | | | | | | | | |
|---|----------|----------------------|------------------|-------------|--|----------------------|------------------|-------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1597X | | P94-B2 | | | | SHLD B1597 | | | |
| B1598 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1598A | 41 | SHLD B1598 | 25N | | | P14-Q* | 25N | | |
| B1598B | 41 | TB17- 6CD | 16N 107 | | | SHLD B1598 | 25N | | |
| B1598E | | P14-P* | 25N | | | TB17- 6AB | 16N 107 | | |
| B1599 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1599B | 41 | TB17- 6CD | 16N 107 | | | SHLD B1599 | 25N | | |
| B1599E | | P94-C1 | 11N 89 | | | TB17- 6AB | 16N 107 | | |
| B1599K | | P94-C2 | | | | SHLD B1599 | | | |
| B1600 | 65 | | 225 200 86 87 85 | | | | 225 200 86 87 85 | | |
| B1600A | 41 | SHLD B1600 | 25N | | | P14-M* | N | | |
| B1600B | 41 | TB17- 8CD | 16N 107 | | | SHLD B1600 | N | | |
| B1600E | | P14-N* | 25N | | | TB17- 8AB | N 107 | | |
| B1601 | 65 | | 52 23 90 91 | | | | 225 200 86 87 85 | | |
| B1601B | 41 | TB17- 8CD | 16N 107 | | | SHLD B1601 | 25N | | |
| B1601E | | P94-D1 | 11N 89 | | | TB17- 8AB | 16N 107 | | |
| B1601K | | P94-D2 | | | | SHLD B1601 | | | |
| B1624 | 41 | P92-N | 25N | | | J25-P | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS A 1900943 SCALE-NONE REV LTR AR SHEET 181 OF 188 | | | | |

| WIRING HARNESS "B" AU 1900943 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|--|----------------------|------------------|-------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| B1625 | 46 | | 225 200 85 | | | | 400 370 48 52 84 | | |
| B1625B | 41 | TB19-80 | 16N 107 | | | SHLD B1625 | 25N | | |
| B1625R | | P84-HH | 25N | | | TB19-79AB | 16N 107 | | |
| B1625L | | P84-JJ | 25N | | | TB19-79CD | 16N 107 | | |
| B1626 | 46 | | 225 200 85 | | | | 400 370 48 52 84 | | |
| B1626B | 41 | TB19-82 | 16N 107 | | | SHLD B1626 | 25N | | |
| B1626R | | P85-HH | 25N | | | TB19-81AB | 16N 107 | | |
| B1626L | | P85-JJ | 25N | | | TB19-81CD | 16N 107 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS A 1900943 SCALE-NONE REV LTR AU SHEET 182 OF 188 | | | | |



| REVISIONS | | | | | |
|-----------|------|----------------------------------|--------|------|-----|
| SYM | ZONE | DESCRIPTION | CHG NO | DATE | APP |
| | | SEE SHT 1 FOR REVISION RECORD | | | |

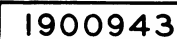


FOR INFORMATION ONLY

CLASS B RELEASE TDR No. _____ DATE _____

| | | | | | | | | |
|---|----------|--------|--|-----------|------------------|--|--|------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | | AC SPARK PLUG DIVISION, GAC 1000 INDEPENDENCE | | DRAWN BY DATE | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FUNCTIONS | DECIMALS | ANGLES | ACSP PH | 12 FEB 64 | DATE | WIRING HARNESS "B" & FRAME ASSEMBLY | | |
| + | + | + | CHECKED | 17 MAR 64 | | | | |
| + | + | + | APPROVED | 17 MAR 64 | | | | |
| + | + | + | APPROVAL | | | | | |
| DO NOT SCALE THIS DRAWING | | | | | | | | |
| MATERIAL: | | | NASA APPROVAL | | CODE IDENT NO. | SIZE | 1900943 | |
| CONTRACT 11459-497 | | | NIT APPROVAL | | SCALE | | | |
| | | | | | | | | SHEET 185 OF 186 |

100043



2-1 180 DE 199
1900943

TABLE 3

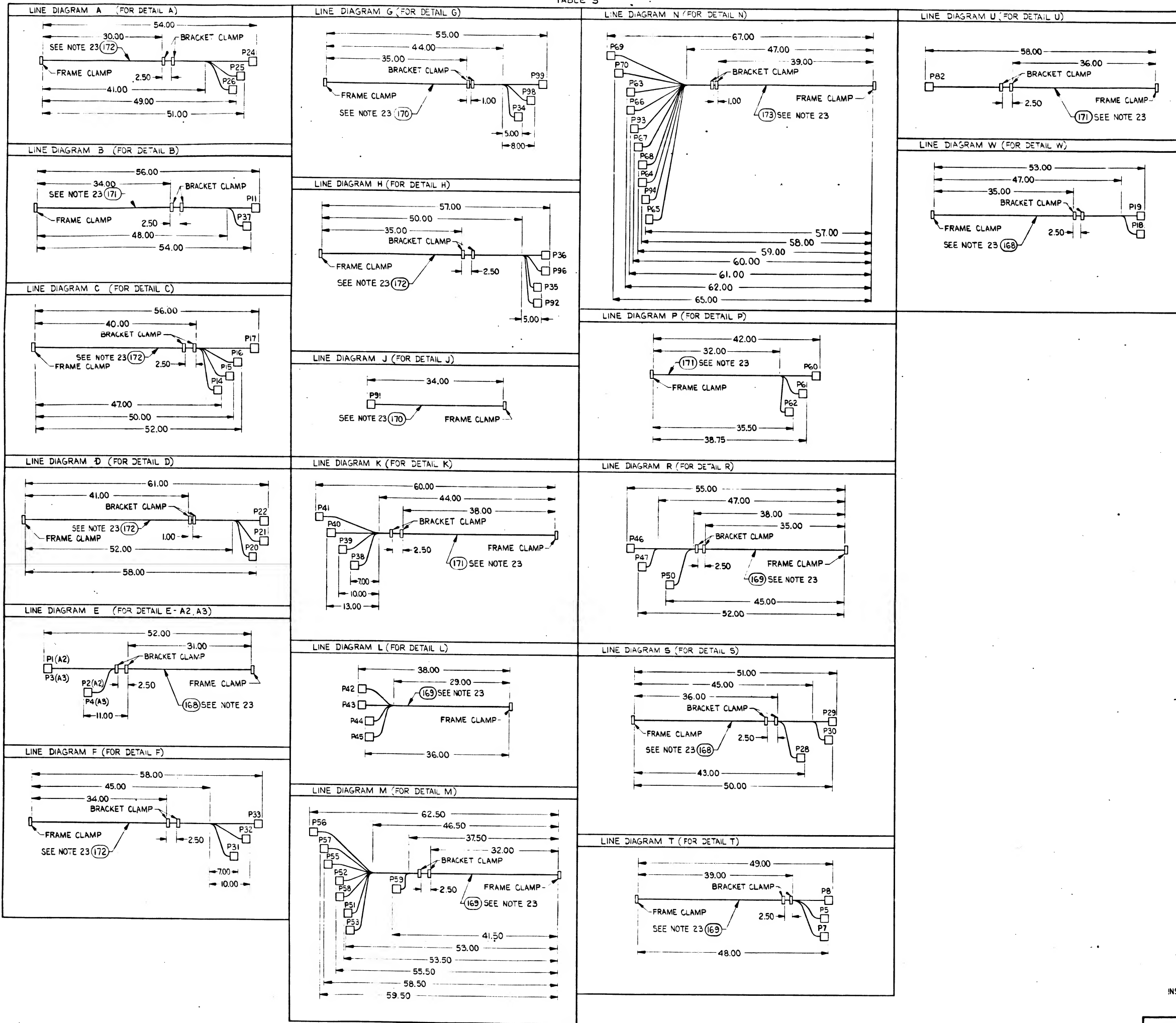


TABLE 2

| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
|---------------------|---------------------------------|
| P1 | A2.11 |
| P2 | A2.3 |
| P3 | A3.1 |
| P4 | A3.3 |
| P5 | A4.11 |
| P7 | A4.3 |
| P9 | A26J6 |
| P10 | A26J7 |
| P11 | A14J2 |
| P14 | A5.1 |
| P15 | A5.2 |
| P16 | A5.3 |
| P17 | A5.4 |
| P20 | A7.11 |
| P21 | A7.2 |
| P22 | A7.3 |
| P23 | A8.11 |
| P24 | A9.11 |
| P25 | A9.12 |
| P26 | A9.13 |
| P31 | A11.1 |
| P32 | A11.2 |
| P33 | A11.3 |
| P34 | A12.11 |
| P35 | A13.11 |
| P36 | A13.12 |
| P37 | A14.11 |
| P38 | A15.11 |
| P39 | A15.12 |
| P40 | A15.13 |
| P41 | A15.14 |
| P47 | A15.15 |
| P50 | A15.16 |
| P60 | A20.28 |
| P61 | A20.29 |
| P62 | A20.30 |
| P63 | A21.11 |
| P64 | A21.12 |
| P65 | A21.13 |
| P66 | A21.14 |
| P67 | A21.15 |
| P68 | A21.16 |
| P69 | A21.17 |
| P70 | A21.18 |
| P71 | A22.11 |
| P82 | A24.11 |
| P83 | A24.12 |
| P84 | A24.13 |
| P85 | A24.14 |
| P86 | A24.15 |
| P90 | A3.14 |
| P91 | A3.15 |
| P92 | A3.16 |
| P93 | A2.19 |
| P94 | A12.10 |
| P95 | A12.11 |
| P96 | A12.12 |
| P97 | A12.13 |
| P98 | A12.14 |
| P99 | A12.15 |

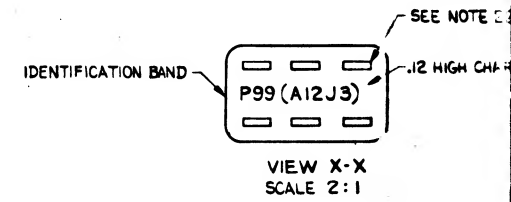
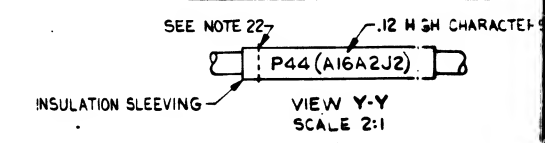


TABLE 1

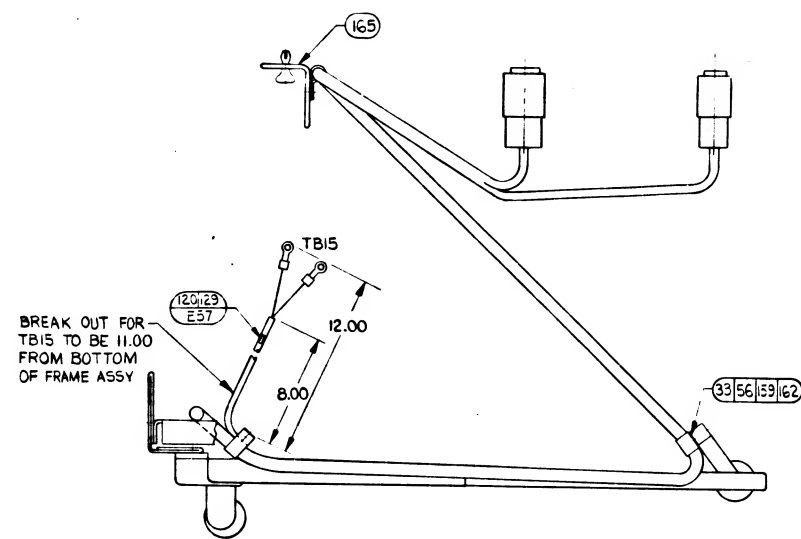
| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
|---------------------|---------------------------------|
| P8 | A4.4 |
| P18 | A6.1 |
| P19 | A6.2 |
| P23 | A10.1 |
| P29 | A10.2 |
| P30 | A10.3 |
| P42 | A16A.11 |
| P43 | A16A.12 |
| P44 | A16A.13 |
| P45 | A16A.14 |
| P46 | A16A.15 |
| P51 | A19.11 |
| P52 | A19.12 |
| P53 | A19.13 |
| P55 | A19.14 |
| P56 | A19.15 |
| P57 | A19.16 |
| P58 | A19.17 |
| P59 | A19.18 |



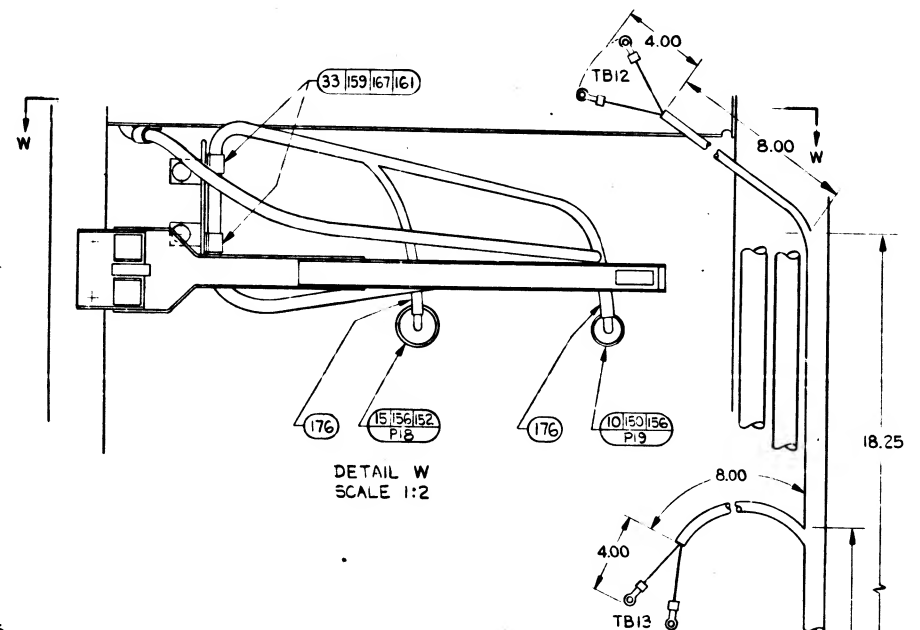
1900943

1-1900943

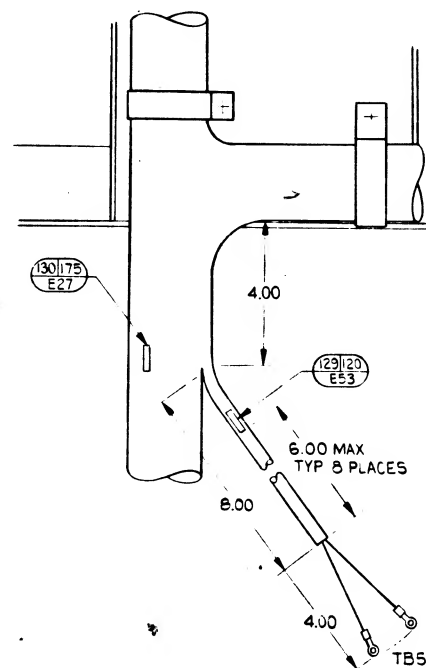
| TABLE 2 | |
|---------------------|---------------------------------|
| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
| P1 | A2J1 |
| P2 | A2J3 |
| P3 | A3J1 |
| P4 | A3J3 |
| P5 | A4J1 |
| P7 | A4J3 |
| P9 | A26J6 |
| P10 | A26J7 |
| P11 | A14J2 |
| P14 | A5J1 |
| P15 | A5J2 |
| P16 | A5J3 |
| P17 | A5J4 |
| P20 | A7J1 |
| P21 | A7J2 |
| P22 | A7J3 |
| P23 | A8J1 |
| P24 | A9J1 |
| P25 | A9J2 |
| P26 | A9J3 |
| P31 | A11J1 |
| P32 | A11J2 |
| P33 | A11J3 |
| P34 | A12J1 |
| P35 | A13J1 |
| P36 | A13J2 |
| P37 | A14J1 |
| P38 | A15J1 |
| P39 | A15J2 |
| P40 | A15J3 |
| P41 | A15J4 |
| P47 | A18J2 |
| P50 | A18J5 |
| F50 | A20J23 |
| P61 | A20J29 |
| P62 | A20J30 |
| P63 | A21J1 |
| P64 | A21J2 |
| P65 | A21J3 |
| P66 | A21J4 |
| P67 | A21J5 |
| P68 | A21J6 |
| P69 | A21J7 |
| P70 | A21J8 |
| P71 | A22J1 |
| P82 | A26J1 |
| P83 | A26J2 |
| P84 | A26J3 |
| P85 | A26J4 |
| P86 | A26J5 |
| P90 | A30J4 |
| P91 | A31J1 |
| P92 | A13J3 |
| P93 | A21J9 |
| P94 | A21J10 |
| P96 | A13J4 |
| P98 | A12J2 |
| P99 | A12J3 |



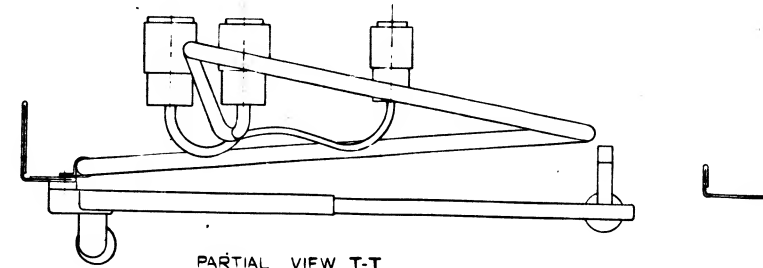
PARTIAL VIEW W-W



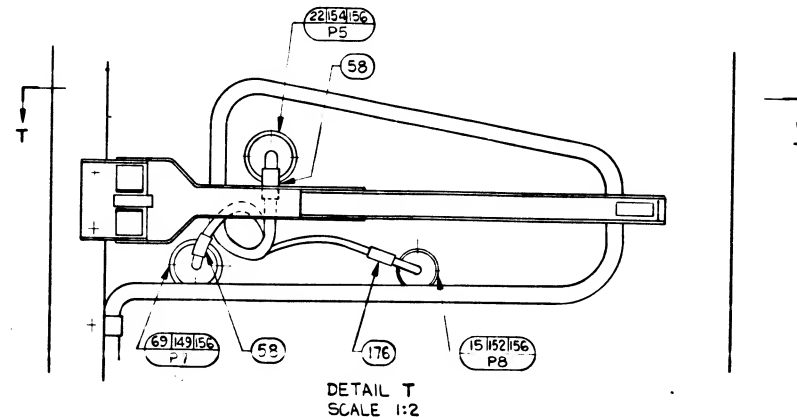
DETAIL W
SCALE 1:2



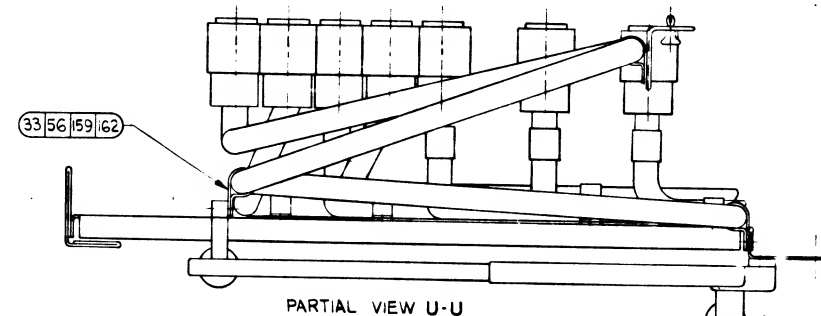
DETAIL Z
SCALE - NONE



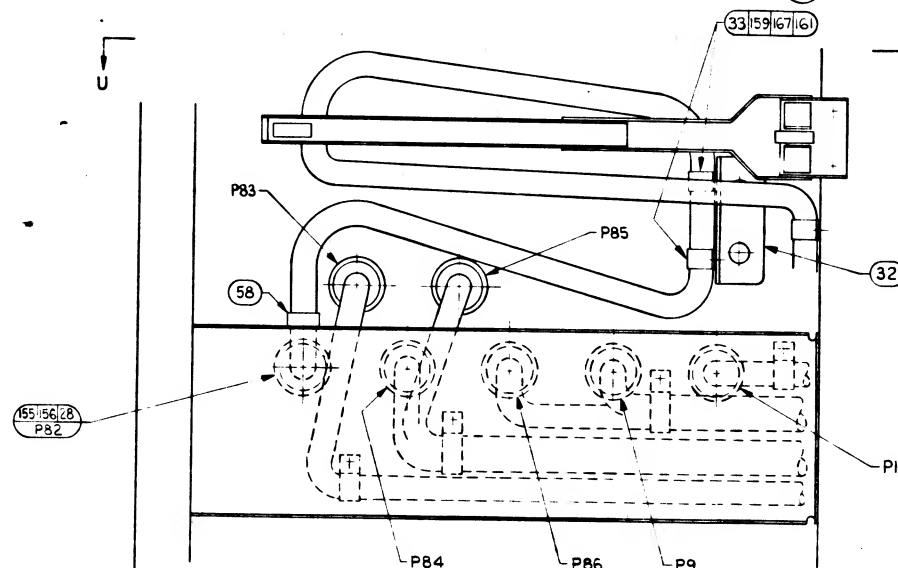
PARTIAL VIEW T-T



DETAIL T
SCALE 1:2



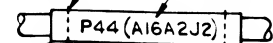
PARTIAL VIEW U-U



DETAIL U
SCALE 1:2

| TABLE 1 | |
|---------------------|---------------------------------|
| HARNESS PLUG SYMBOL | MATING DRAWER RECEPTACLE SYMBOL |
| P8 | A4J4 |
| P18 | A6J1 |
| P19 | A6J2 |
| P28 | A10J1 |
| P29 | A10J2 |
| P30 | A10J3 |
| P42 | A16A1J1 |
| P43 | A16A1J2 |
| P44 | A16A2J1 |
| P45 | A16A2J2 |
| P46 | A18J1 |
| P51 | A19J1 |
| P52 | A19J2 |
| P53 | A19J3 |
| P55 | A19J5 |
| P56 | A19J6 |
| P57 | A19J7 |
| P58 | A19J8 |
| P59 | A19J10 |

SEE NOTE 22
1/2 HIGH CHARACTERS



VIEW Y-Y
SCALE 2:1

| REVISIONS | | | |
|-----------|-------------------------------|--------|------|
| SYMBOL | DESCRIPTION | CHG NO | DATE |
| 1 | SEE SHT 1 FOR REVISION RECORD | | |

FOR INFORMATION ONLY
CLASS B RELEASE FOR No. _____ DATE _____

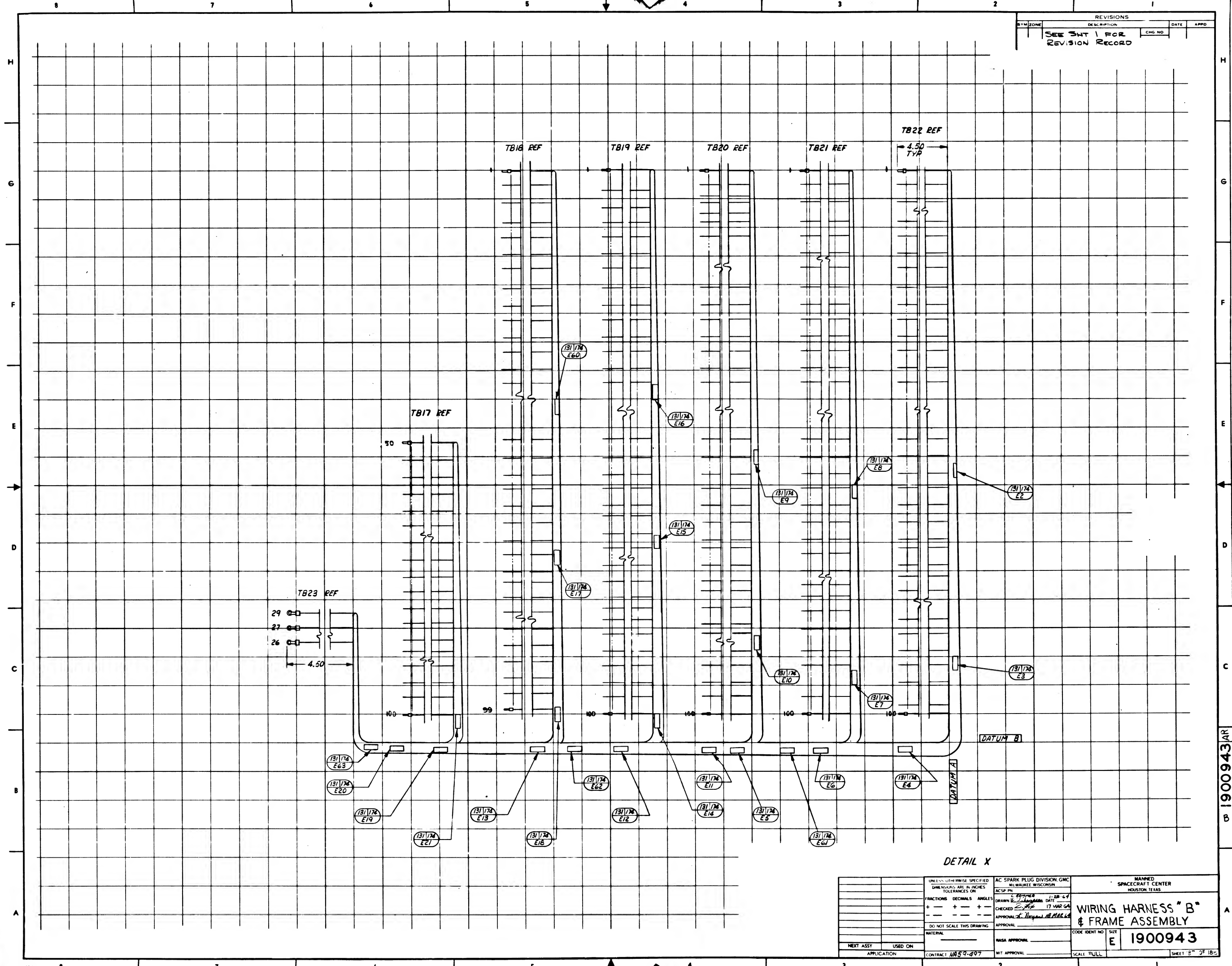
| | | | |
|---|-----------------|--|--|
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN BY: [Signature] | DATE: 5-4 | WIRING HARNESS "B" # FRAME ASSEMBLY | |
| CHECKED BY: [Signature] | DATE: 17 MAR 64 | CODE IDENT NO: J | |
| APPROVAL: [Signature] | | 1900943 | |
| NASA APPROVAL: _____ | | SCALE: _____ | |
| MIL APPROVAL: _____ | | SHEET 86 OF 186 | |

1900943

2-1-9-0-0-9-4-3

1900943

| REVISIONS | | | | |
|-------------------------------|-------------|------|------|--|
| SYMBOL | DESCRIPTION | DATE | APPD | |
| SEE SMT 1 FOR REVISION RECORD | | | | |



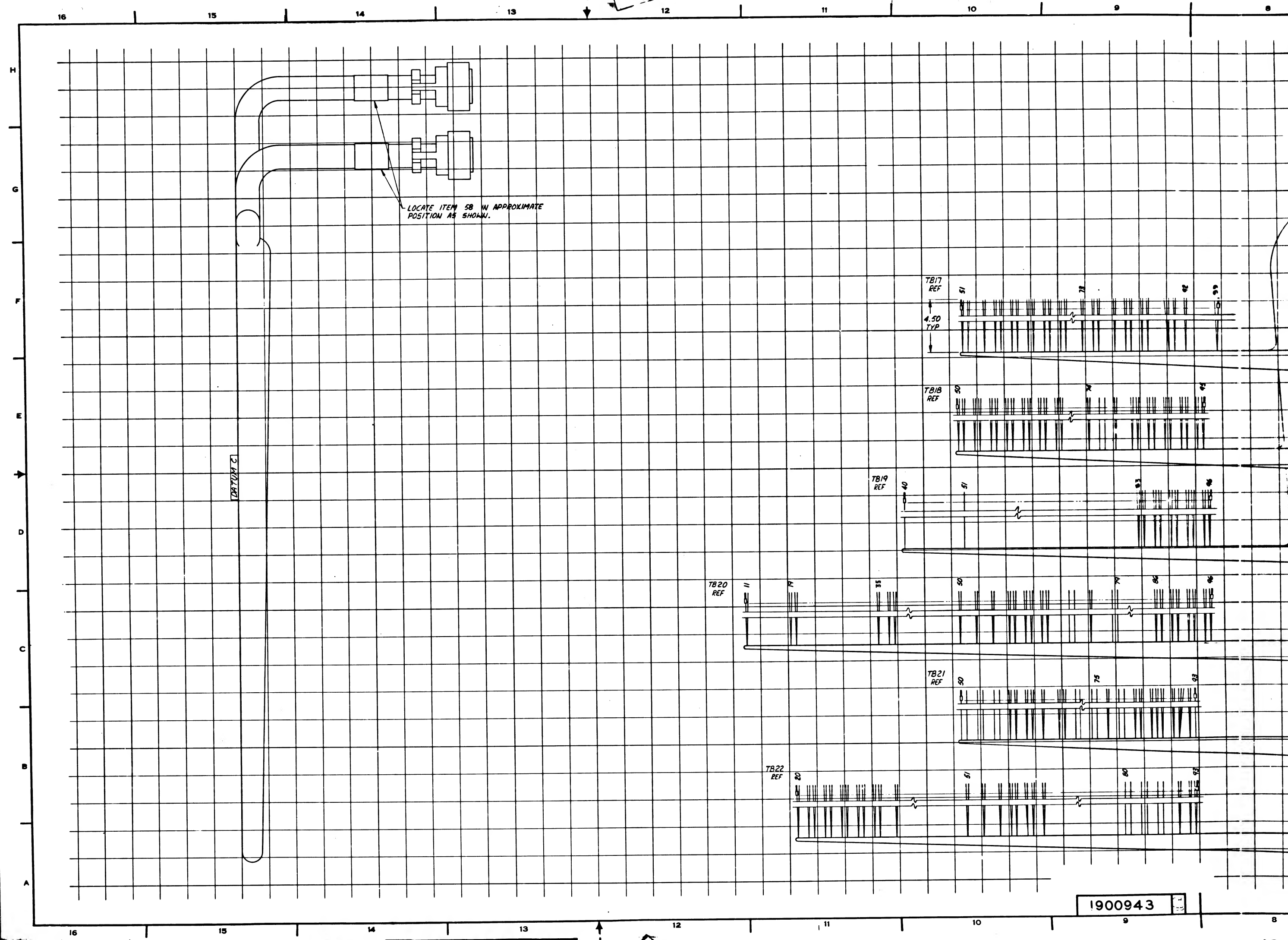
DETAIL X

| | | | | | |
|---|----------|---|---------|--|--|
| UNITS: UNLESS SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: | | AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN | | MANUFACTURED SPACECRAFT CENTER HOUSTON TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | 1-20-64 | |
| + | + | + | CHECKED | 17 MAR 64 | |
| DO NOT SCALE THIS DRAWING | | APPROVAL | | APPROVAL | |
| MATERIAL | | NASA APPROVAL | | MIT APPROVAL | |
| NEXT ASSY USED ON | | CONTRACT | | WAS-497 | |
| APPLICATION | | SCALE | | FULL | |
| | | CODE IDENT NO | | SIZE | |
| | | E | | 1900943 | |
| | | SHEET | | B OF 18 | |

1900943/AR

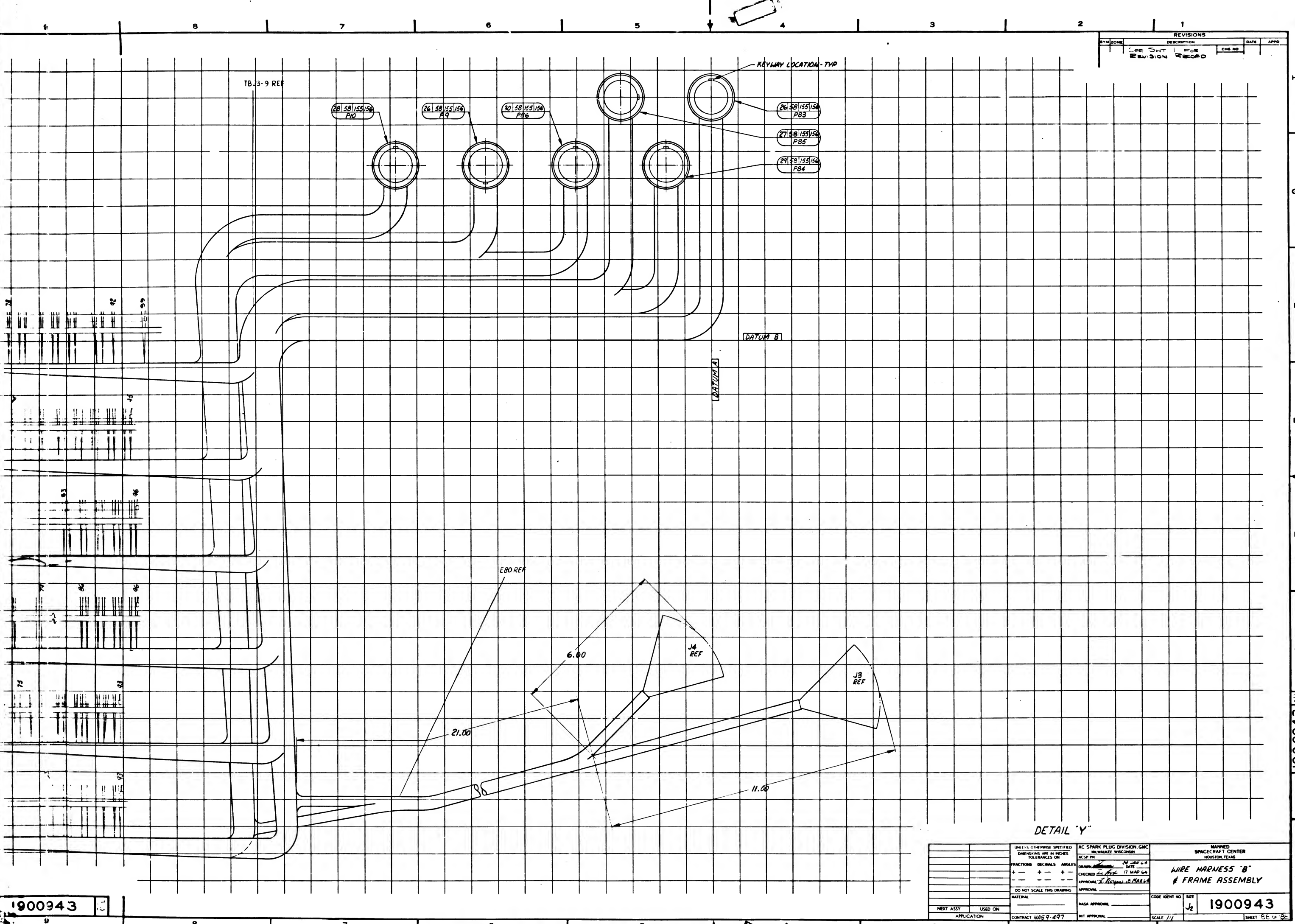
1900943

CHL 123 DE 123
1800843



171900943

1900943



1900943

271900943

| | | | | | |
|---|----------|---|--------------------|--|------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION GAC MILWAUKEE WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | DATE | DATE |
| + | + | + | 24 JAN 64 | 17 MAR 64 | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL | | |
| MATERIAL | | | PASA APPROVAL | | |
| NEXT ASSY | | | CONTRACT HAS 9-497 | | |
| APPLICATION | | | RIT APPROVAL | | |
| CODE IDENT NO | | | SCALE 1/1 | | |
| SIZE | | | SHEET 55 OF 56 | | |
| 1900943 | | | | | |

1900943

271900943

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

2. MATERIAL: STAINLESS STEEL PER QQ-S-763, CLASS 303,
COND A, CF (ES-380).

3. FINISH: PASSIVATE PER MIL-F-14072 (SIG C) FINISH E-300 (ES-585).

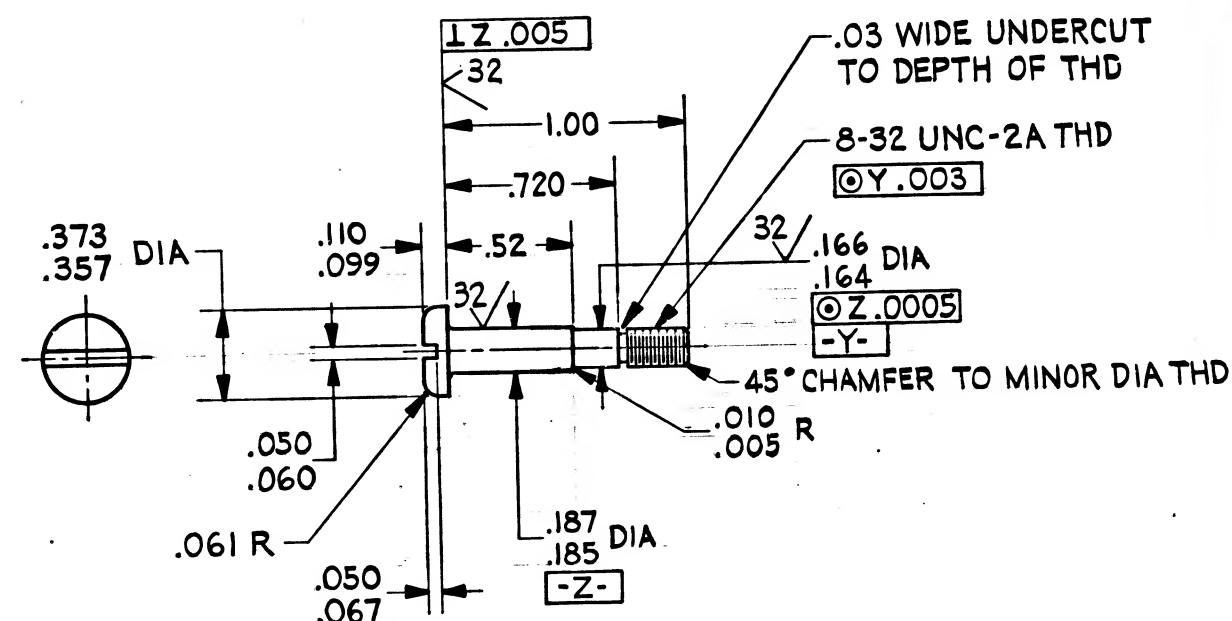
4. UNLESS OTHERWISE SPECIFIED:
A. SURFACE ROUGHNESS MUST NOT EXCEED 63/
B. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.

5. MUST BE FREE FROM BURRS.

6. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04408 DATE 11/5/63



| | | | | | |
|-------------------|-------------|---|--|---|---------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | ACSP PN | SCREW, SHOULDER | |
| | | + - ±.005 + 2° | DRAWN C. LENZ 17 OCT 63 DATE | | |
| | | - - ±.02 - 2° | CHECKED P. Remde 15 OCT 63 21 OCT 63 | | |
| | | DO NOT SCALE THIS DRAWING | APPROVAL BRBhmann APPROVAL G. Feldman Nov 4, 1963 | | |
| | | MATERIAL | NASA APPROVAL W. J. Rhine 12-5-63 | CODE IDENT NO. | SIZE |
| 1900606-011 | 1900606-011 | SEE NOTE 2 | MIT APPROVAL W. J. Rhine 5 Nov 63 | C | 1900944 |
| NEXT ASSY USED ON | | CONTRACT NAS 9-497 | SCALE 2:1 | SHEET 1 OF 1 | |
| APPLICATION | | | | | |

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

2. MATERIAL: STAINLESS STEEL QQ-S-763, CLASS 302 OR 304, COND. A, HF (ES-376).

3. UNLESS OTHERWISE SPECIFIED:
A. ALL CORNERS MUST BE .005 TO .015R OR
CHAMFER.

B. MUST BE FROM BURRS AND SHARP EDGES.

C. SURFACE ROUGHNESS SHALL NOT EXCEED ⁶³✓

4. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (E5-267).

5. FINISH: MIL-F-14072 (SIG. C) FIN E300
(PASSIVATE ES-585).

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and section views.

Top View Dimensions:

- Overall width: 25.25
- Overall length: 24.50
- Top edge thickness: .38
- Inner width: 1.69
- Inner length: 1.32, .128
- Inner height: .375
- Inner width: 1.534
- Inner height: .794, .774
- Inner width: .010
- Inner height: .620
- Inner width: .32
- Inner length: 4.226
- Inner length: 8.452
- Inner length: 12.678
- Inner length: 16.904
- Inner length: 21.130
- Inner length: 20.463
- Inner length: 18.263
- Inner length: 16.063
- Inner length: 13.863
- Inner length: 11.663
- Inner length: 9.463
- Inner length: 7.263
- Inner length: 5.063
- Inner length: 2.863
- Inner length: .663
- Inner length: .811
- Inner length: .813
- Inner length: 1.623
- Inner length: 1.625

Section Views:

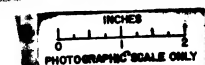
- SECTION A-A:** Shows a cross-section of the top edge with dimensions .2838, .2843, .5° 15', 4° 45', .1975 DIA THRU, .1995 DIA THRU, 20 HOLES, CSK 100° TO .227 DIA, .247 DIA, .1A .005 DIA, 20 PLACES.
- SECTION B-B:** Shows a cross-section of the bottom edge with dimensions .282, .286, .5° 15', 4° 45', .202 DIA THRU, .206 DIA THRU, 10 HOLES, CSK 82° TO .390 DIA, .1A .005 DIA, 10 PLACES.

Other Features:

- IDENTIFICATION MARK
- 25.25
- 24.50
- .19 2 PLACES
- 20.463
- 18.263
- 16.063
- 13.863
- 11.663
- 9.463
- 7.263
- 5.063
- 2.863
- .663
- .811
- .813
- 1.623
- 1.625

CLASS B RELEASE TDR No. 05658 DATE 1/7/64

| | | | | | |
|--|--|--|--|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC 14 MILLER, WILCOX, CONN. ACSP PN <u>14-587-63</u> DATE <u>11-28-63</u> DRAWN <u>W. J. [Signature]</u> CHECKED <u>Ed. [Signature]</u> 11/28/63 APPROVED <u>W. J. [Signature]</u> 11/28/63 APPROVAL <u>[Signature]</u> 11/28/63 | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS CAP, TOE. AGE TRANSPORTATION CART | |
| FRACTIONS DECIMALS ANGLES + - $\pm .005$ ± 0.030 + - $\pm .02$ ± 0.030 | | DO NOT SCALE THIS DRAWING | | (PDR IDENT NO) SIZE 1900952-011 1900009-011 NEXT ASSY USED ON SEE NOTE 2 CONSTRUCTION: N.A.S. 2-497 | |
| MATERIAL N.A.S.A. APPROVAL <u>[Signature]</u> MET APPROVAL <u>[Signature]</u> | | SCALE FULL | | 1900945 E SHEET 1 OF 1 | |



INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

2. MATERIAL: STAINLESS STEEL QQ-S-763, CLASS 416
COND A (ES-374 SST)

3. UNLESS OTHERWISE SPECIFIED:
A. ALL CORNERS MUST BE .005 TO .015R OR
CHAMFER.

B. MUST BE FROM BURRS AND SHARP EDGES.

C. SURFACE ROUGHNESS SHALL NOT EXCEED ⁶³/₃.

4. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130(E5-267).

5. FINISH: MIL-F-14072 (SIG. C) FIN E300
(PASSIVATE ES-585).

Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions and features.

Dimensions:

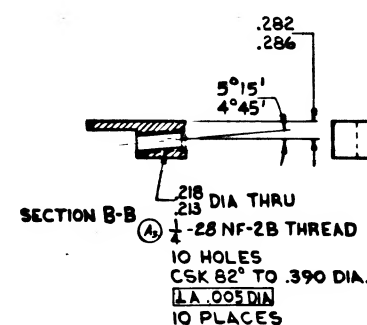
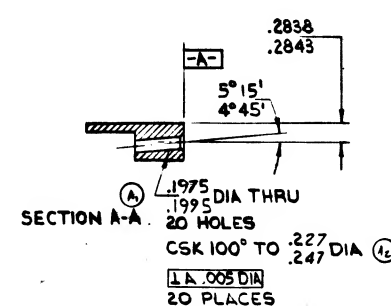
- Overall length: 25.25
- Overall width: .38
- Distance from left edge to first hole center: 1.69
- Distance between hole centers: 4.226, 8.452, 12.678, 16.904, 21.130
- Distance from left edge to first hole center (alternative): .132, .128
- Distance from left edge to first hole center (alternative): .794, .774
- Distance from left edge to first hole center (alternative): 1.534
- Distance from left edge to first hole center (alternative): .620
- Distance from left edge to first hole center (alternative): .375
- Distance from left edge to first hole center (alternative): .010
- Distance from left edge to first hole center (alternative): .32

Features:

- 2 DIA THRU HOLES (indicated by circles with crosses)
- CSK 82° TO .421 DIA (indicated by a dashed line and arrow)
- IDENTIFICATION MARK (indicated by a rectangle with a diagonal line)
- .19 2 PLACE (indicated by a dimension line)

FOR INFORMATION ONLY

CLASS B RELEASE TOR No. 05658 DATE 1/2/69



| | | | | | |
|---|--|---|--|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GIBB MILWAUKEE, WISCONSIN | | MARKED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | ASCT PN <i>17 507 83</i> DATE | | CAP. TOE. AGE TRANSPORTATION CART | |
| FRACTIONS DECIMALS INVOLES + - .005 +0.30 - - .02 -0.30 | | CHECKED <i>Ed Foster 3/26/62</i> APPROVED <i>W. J. ... 3/26/62</i> | | | |
| DO NOT SCALE THIS DRAWING | | APPROVAL <i>3/26/62</i> | | | |
| MATERIAL SEE NOTE 2 | | PART APPROVAL <i>W. J. ...</i> | | | |
| 1900952-011 1900009-011 NEXT ASSY USED ON | | CONTRACT MA 56-497 | | CODE IDENT NO. SIZE E 1900945 | |
| APPLICATION | | SCALE FULL | | SHEET 1 OF 1 | |

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: STAINLESS STEEL, QQ-S-763, CLASS 302 OR 304, COND. A, HF (ES-376).

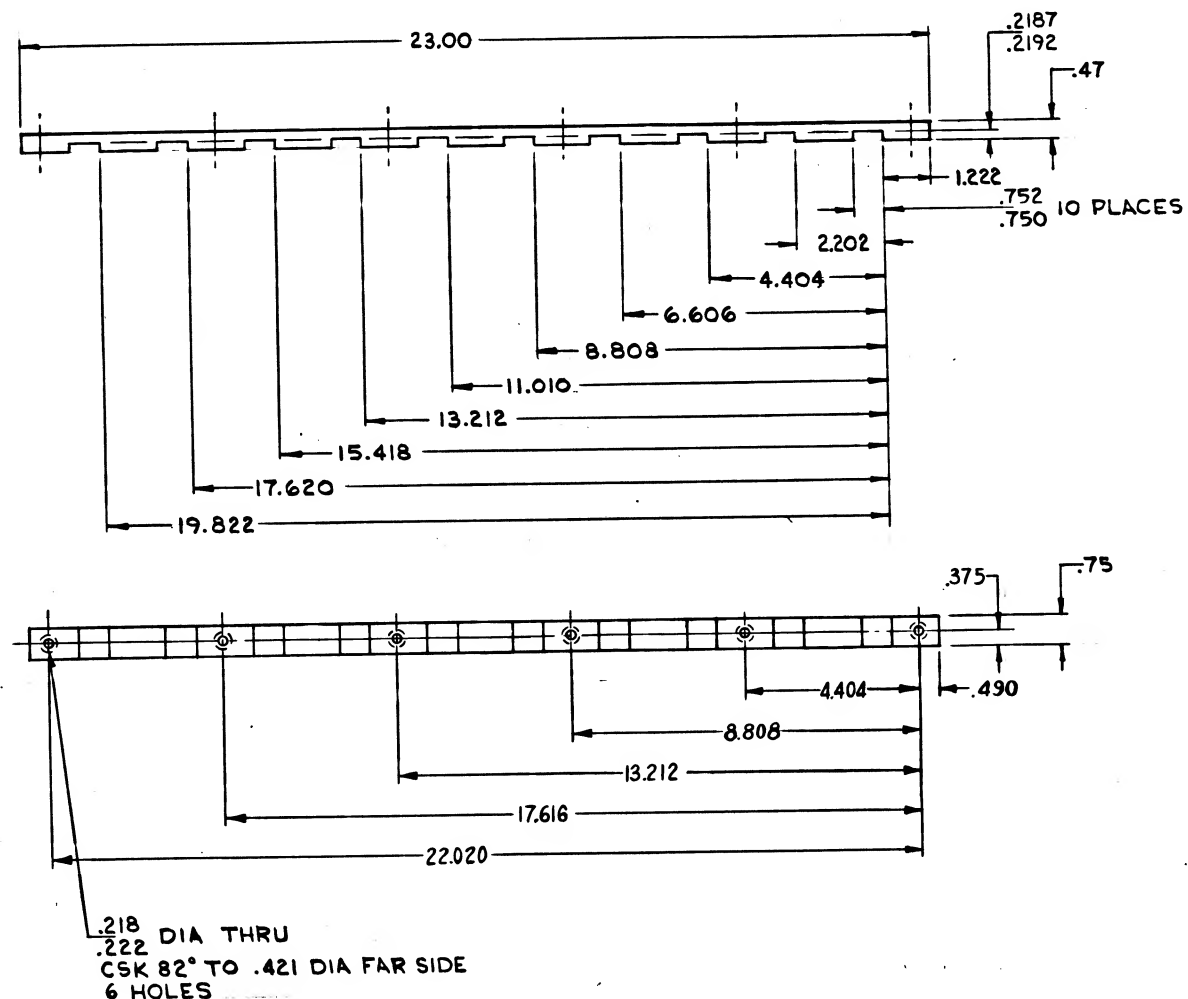
3. UNLESS OTHERWISE SPECIFIED:
A. ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.

B. MUST BE FREE FROM BURRS AND SHARP EDGES.

C. SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{63}$.

4. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

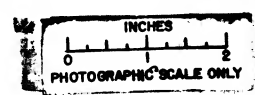
5. FINISH: MIL-F-14072 (SIG. C) FIN E 300 (PASSIVATE ES-585).



FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05658 DATE 1/7/69

| | | | | | |
|---|----------|--|---------------------|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | 18 OCT 63 | |
| + | ±.005 | +2° | CHECKED | 31 OCT 63 | |
| - | ±.02 | -2° | APPROVED | 31 OCT 63 | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL | | |
| MATERIAL | | | NASA APPROVAL | | |
| SEE NOTE 2 | | | MIT APPROVAL | | |
| CONTRACT NAS 9-497 | | | SCALE 1:2 | | |
| APPLICATION | | | CODE IDENT NO. SIZE | | |
| 1900952-011 1900009-011 | | | D 1900946 | | |
| NEXT ASSY USED ON | | | SHEET 1 OF 1 | | |



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE
WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL:

STAINLESS STEEL QQ-S-763, CLASS 303 OR
303 Se COND A, CF (ES-380).

3. MUST BE FREE FROM BURRS & SHARP EDGES.

4. UNLESS OTHERWISE SPECIFIED:

A. MACHINED CORNERS MUST BE .005 TO .015 R
OR CHAMFER.

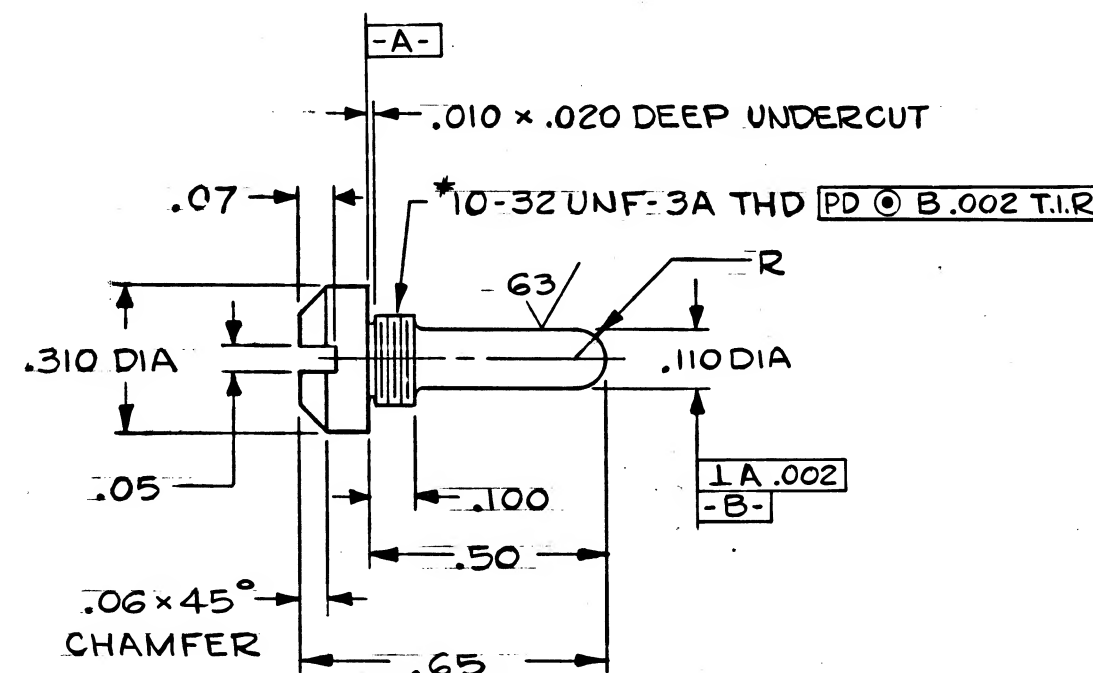
B. SURFACE ROUGHNESS OF MACHINED SURFACES
MUST NOT EXCEED $\sqrt{63}$.

5. FINISH:

PASSIVATE PER MIL-F-14072 (SIG C)
FINISH E-300 (ES-585).

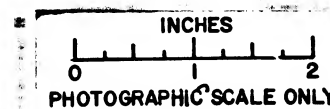
6. IDENTIFY USING DRAWING NUMBER AND REVISION
LETTER PER MIL-STD-130 (ES-267).

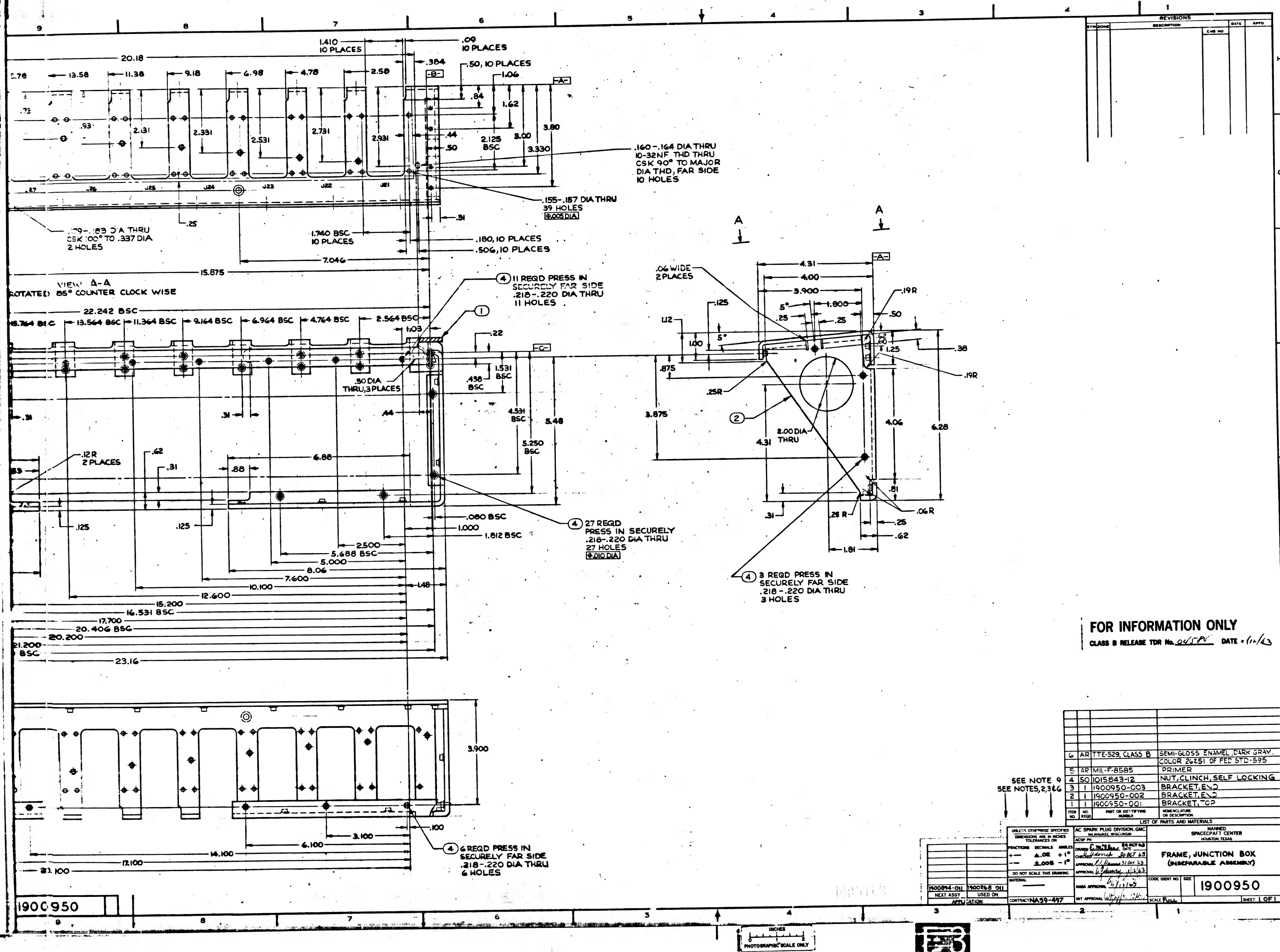
| REVISIONS | | | | |
|-----------|------|-------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| | | | | |
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**FOR INFORMATION ONLY**

CLASS B RELEASE TDR No. 04584 DATE 11/12/63

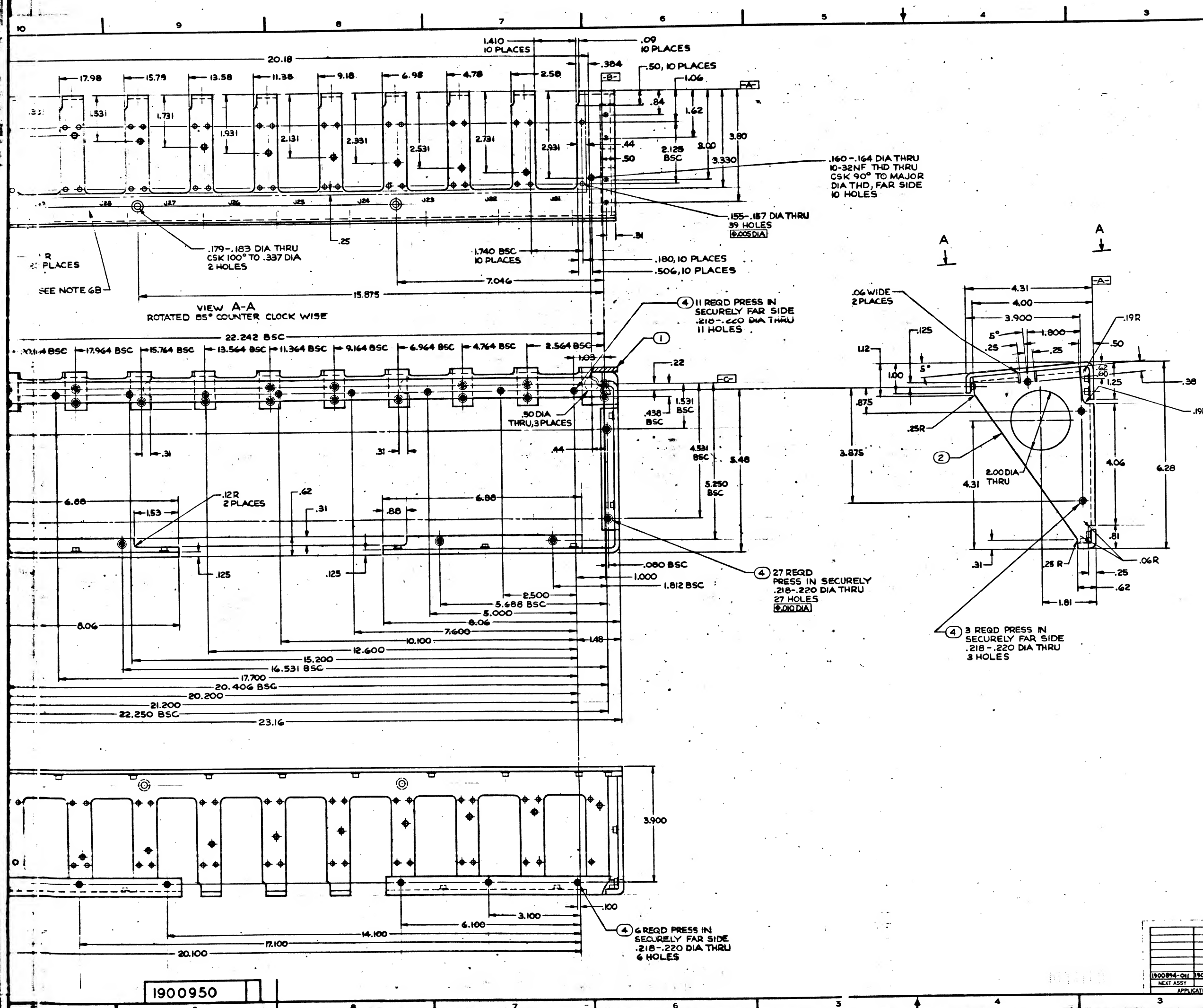
| | | | | | | | |
|-------------|--|---|----------|---|------|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS | DECIMALS | ANGLES | DATE | GUIDE PIN, GSE-PSA JUNCTION BOX | |
| | | + | - | ±.005 | 2° | | |
| | | - | - | ±.02 | -2° | | |
| | | DO NOT SCALE THIS DRAWING | | | | | |
| | | MATERIAL | | SEE NOTE 2 | | CODE IDENT NO. | |
| 1900894 | | 1900268 | | | | C | |
| NEXT ASSY | | USED ON | | | | 1900948 | |
| APPLICATION | | CONTRACT NAS 9-497 | | MIT APPROVAL | | SCALE 4:1 | |
| | | | | | | SHEET 1 OF 1 | |





FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 045PV DATE 1/12/82

[illegible]

[illegible]

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 0450V DATE 11/1/64

| | | |
|---|----------------------------|--|
| 6 | AR TTE-529, CLASS B | SEMI-GLOSS ENAMEL, PINK GRAY, COLOR 24251 CF FED SPEC - 505 |
| 5 | AR ML-F-8595 | PRIMER |
| 4 | 50 C 5043-2 | NUT, CLINCH SELF LOCKING |
| 3 | 1 500950-003 | BRACKET, END |
| 2 | 1 500950-002 | BRACKET, END |
| 1 | 500950-00 | BRACKET, END |
| ITEM NO. | PART OR IDENTIFYING NUMBER | DESCRIPTION, QUANTITY, OR IDENTIFICATION |
| LIST OF PARTS AND MATERIALS | | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MAINED SPACECRAFT CENTER HOUSTON, TEXAS |
| ORDERED BY: <u>CD-104</u> <u>10-1-68</u> DESIGNED BY: <u>CD-104</u> <u>10-1-68</u> CHECKED BY: <u>CD-104</u> <u>10-1-68</u> APPROVAL: <u>CD-104</u> <u>10-1-68</u> APPROVAL: <u>CD-104</u> <u>10-1-68</u> | | |
| NASA APPROVAL: <u>CD-104</u> INT APPROVAL: <u>CD-104</u> | | CODE IDENT NO. SIZE 1900950 |
| SCALE: <u>Full</u> | | SHEET: <u>1 of 1</u> |

SEE NOTE 9
SEE NOTES, 2, 3 & 6

UNLESS OTHERWISE SPECIFIED

| DIMENSIONS ARE IN INCHES TOLERANCES ON | | |
|---|-----------|----------|
| FRACTIONS | DECIMALS | ANGLES |
| $\pm \frac{1}{16}$ | $\pm .02$ | $\pm 1'$ |

DO NOT SCALE THIS DRAW

| | |
|-------|----------|
| | MATERIAL |
| B-011 | |
| ON | |

| | |
|----------|----------|
| CONTRACT | NA59-497 |
|----------|----------|

| NO. | REQD | NUMBER | LIST OF PARTS AND MATERIALS |
|----------|------|--|--|
| REQD | | AC SPARK PLUG DIVISION GARC NEW WAUKEE, WISCONSIN | MANNED SPACECRAFT CENTER HOUSTON TEXAS |
| QUANTITY | | APPROVAL <u>7-10-68</u> EX-07-03 <u>CW</u> <u>1000000</u> <u>30 OCT 68</u> APPROVAL <u>10/10/68</u> <u>31 OCT 68 - 3</u> APPROVAL <u>10/10/68</u> <u>1-1-69</u> | FRAME, JUNCTION BOX (INEPARABLE ASSEMBLY) |
| REMARKS | | NASA APPROVAL <u>11/11/68</u> INT APPROVAL <u>11/11/68</u> | CODE IDENT NO. SIZE 1900950 |
| | | SCALE <u>FULL</u> | <u>10"</u> ST <u>10"</u> LF |
| - 2 - | | | 1 |

FRAME, JUNCTION BOX
(INSEPARABLE ASSEMBLY)

| | |
|------|----------|
| SIZE | 190095.0 |
|------|----------|

| | |
|---------|---|
| 1900920 | |
| SECRET | C |

1900950

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

F-2

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

2. MATERIAL: ALUMINUM ALLOY QQ-A-355, TEMPER O (ES-2104, 2024).

3. HEAT TREATMENT PER MIL-H-6088 TO TEMPER T6 (ES-2010).

4. MUST BE FREE FROM BURRS AND SHARP EDGES.

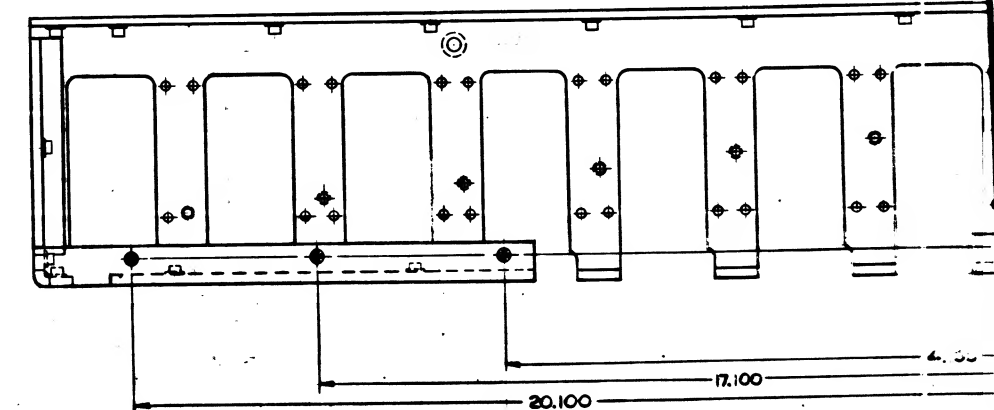
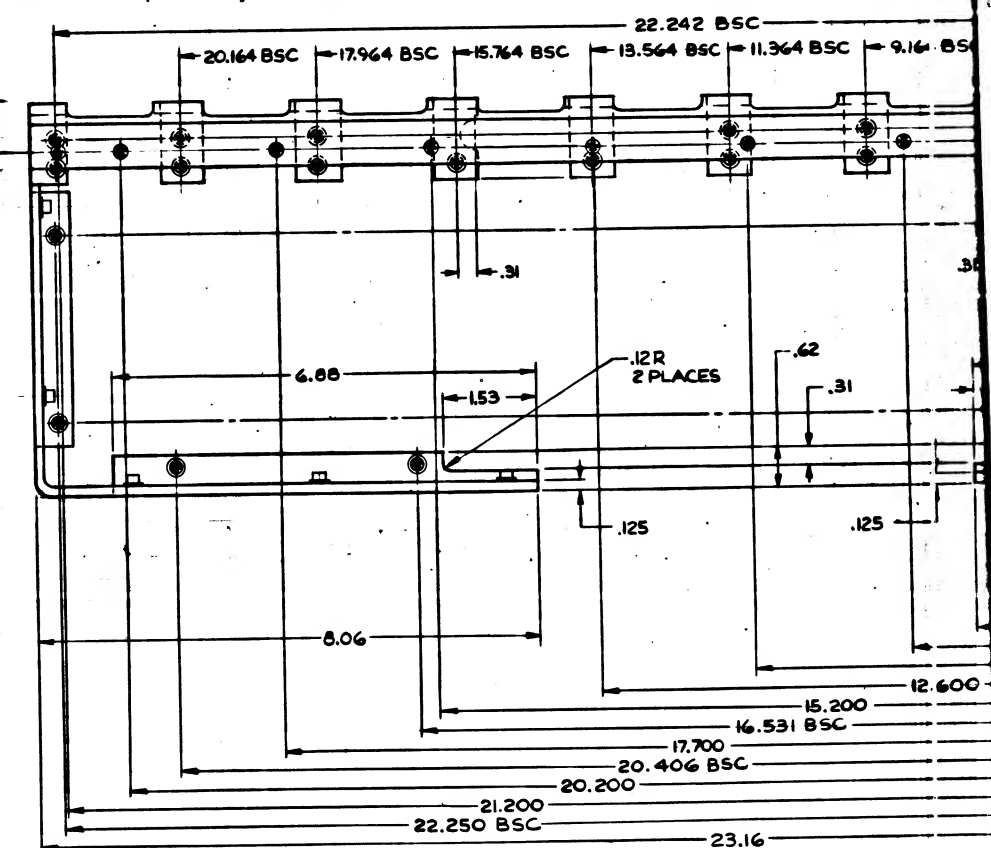
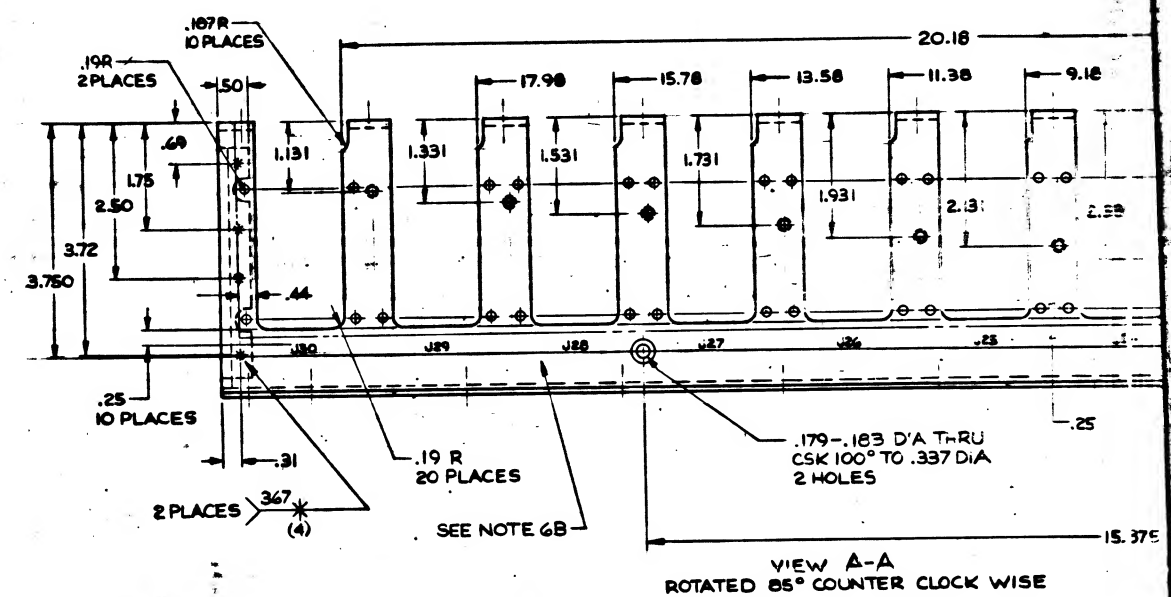
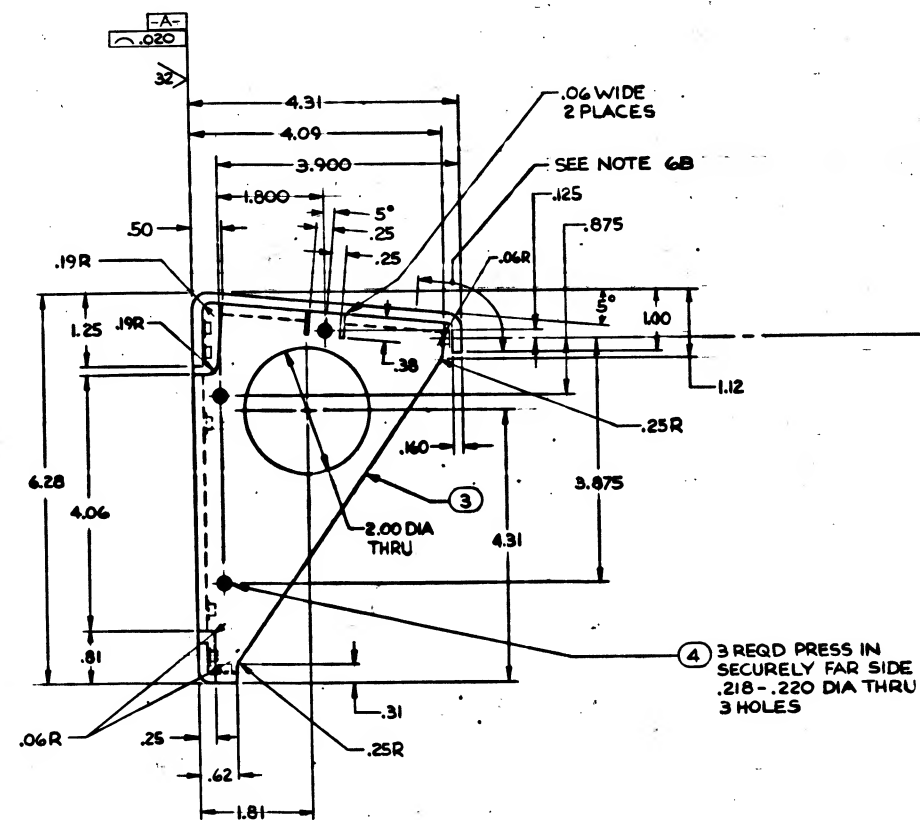
5. SPOTWELD PER MIL-W-6858, CLASS B, GROUP A (ES-2512).

6. FINISH: A. CHEMICAL FILM PER MIL-C-5541 (ES-591)
B. APPLY ITEM (5) AND (2) COATS OF ITEM (6) TO INDICATED AREA.

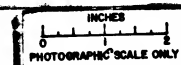
7. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

8. MARK CHARACTERS, PER ND1002019, .12 HIGH, COLOR WHITE, CENTRALIZE AS SHOWN.

9.VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.



1900950



NOTES :

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL :
ALUMINUM ALLOY QQ-A-355 TEMPER T4 (ES-2104 TYPE 2024-T4)

3. MUST BE FREE FROM BURRS & SHARP EDGES.

4. UNLESS OTHERWISE SPECIFIED :

A. MACHINED CORNERS MUST BE .005 TO .015 R OR CHAMFER.

B. SURFACE ROUGHNESS OF MACHINED SURFACES MUST NOT EXCEED $\sqrt{125}$.

5. FINISH :

A. CHEMICAL FILM PER MIL-C-5541 (ES-591).

B. APPLY ITEM (4) AND TWO COATS OF (5) TO EDGE.

6. IDENTIFY USING DRAWING NUMBER & REVISION LETTER PER MIL-STD-130 (ES-267).

7. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

.201-.209 DIA THRU
CSK 100° TO .337 DIA
FAR SIDE 27 HOLES
(5) .005 DIA

SEE NOTE 5

4 REQD (2)
PRESS IN SECURELY
.249-.251 DIA THRU
4 HOLES "a"

SEE NOTE 5

(3) 8 REQD
PRESS IN SECURELY
.218-.220 DIA THRU
8 HOLES

.191-.183 DIA THRU
2 HOLES

SECTION A-A
FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 041884 DATE 11/1/83

SEE NOTE 7
SEE NOTE 7

| ITEM NO. | REV | DESCRIPTION |
|----------|-----|------------------|
| 5 | AR | TTE-529, CLASS B |
| 4 | AR | MIL-P-8585 |
| 3 | Q | 1015843-12 |
| 2 | Q | 1015843-11 |
| 1 | Q | 1900951-001 |

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GNC MILWAUKEE, WISCONSIN ACSP PN | DATE |
|---|--|----------------|
| FRACTIONS | DECIMALS | ANGLES |
| + | ± .02 | + |
| - | ± .005 | - |
| DO NOT SCALE THIS DRAWING | | |
| MATERIAL | NASA APPROVAL | CODE IDENT NO. |
| 1900894 | 1900268-011 | E |
| APPLICATION | CONTRACT NAS 9-497 | SCALE FULL |

BACKPLATE, JUNCTION
BOX FRAME

1900951

INCHES
PHOTOGRAPHIC SCALE ONLY

| REVISIONS | | | | | |
|-----------|------|--|---------|-----------------|--------------------|
| SYM | ZONE | DESCRIPTION | | DATE | APPD. |
| A | | REPLACED WITH CHANGE BY REV. B PER MXC 192478 PER TDRR 05740 | CHG NO. | 20 DEC 63 | <i>[Signature]</i> |
| | | | | 1/14/64 | <i>[Signature]</i> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PICTURE INCOMPLETE. DRAWING INFORMATION
WILL FOLLOW WHEN AVAILABLE.

④ REPLACED WITH CHANGE BY REV B

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04707f DATE 11/19/02

| | | | | | |
|----------|----------|----------------------------|-----|-------------------------------|---|
| 10 | 1 | ↑ | -16 | ↑ | ↑ |
| 9 | 1 | | -12 | | |
| 8 | 1 | | -10 | | |
| 7 | 1 | | -8 | | |
| 6 | 1 | AN3420-6 | | BUSHING, TELESCOPING | |
| 5 | 1 | 1016237-320 | | CLAMP, STRAIN RELIEF | |
| 4 | 1 | ND1002181 | | WIRE, TYPE I, CLASS 1, WHITE | |
| | | | | #20 AWG -135 FT LG | |
| 3 | 1 | 1016197-007 | | TUBING, SHRINK, FLEXIBLE, | |
| | | | | MODIFIED PVC -16 FT LG | |
| 2 | 1 | MS3126F-18-32SX | | CONNECTOR, PLUG (1897092-322) | |
| 1 | 1 | MS3106R-32-8P | | CONNECTOR, PLUG (1897106-80) | |
| ITEM NO. | NO. REQD | PART OR IDENTIFYING NUMBER | | NOMENCLATURE OR DESCRIPTION | |

| | | | | | | | |
|-------------|--|---|--|---|--|---|--------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | C. LENZ 22 OCT 63 DRAWN DATE | | CABLE, ELECTRICAL, INTERCONNECT-WIOI (BPP TO IMU) | |
| | | + - + - + - | | CHECKED <i>J. J. Miller</i> | | | |
| | | - - - - - - | | APPROVAL <i>R. Blum 10-24-63</i> | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <i>L. Gekiman 11/8/63</i> | | | |
| | | MATERIAL | | NASA APPROVAL <i>[Signature]</i> | | CODE IDENT NO. | SIZE |
| 1900011-011 | | 1900011-011 | | | | | C |
| NEXT ASSY | | USED ON | | MIT APPROVAL <i>D. Habel 11/19/63</i> | | 1900954 | |
| APPLICATION | | CONTRACT NAS9-497 | | | | SCALE | SHEET 1 OF 1 |

| GIG | | CABLE W101 | | B | | 1900954 | |
|---|---|---------------|---------|---|--|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART | | | | | | |
| 2 | SEE CONDUCTOR CHART | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .25 INCH HIGH CHARACTERS WHITE. HOT IMPRESSION STAMPING PER ND1002019. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR WHITE PER ND1002019. | | | | | | |
| 12 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 13 | SOLDER PER MIL-STD-440 USING ITEMS 11 AND 12. | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | 1900954 | | | | |
| SCALE - NONE | | REV LTR | B | | | | |
| | | SHEET | 2 OF 6 | | | | |

| GIG | | CABLE W101 | | B | | 1900954 | |
|--|--|---------------|---------|---|--|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | |
| TOLERANCE | | | | | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | | | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | | | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | | | |
| OVER 6 FEET +2.00-.00 | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | 1900954 | | | | |
| SCALE - NONE | | REV LTR | B | | | | |
| | | SHEET | 3 OF 6 | | | | |

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|---|-------------|---|--|------------------------------------|-------------|--------------|-------------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | DATE | APPROVAL |
| 1900011-011 | 1900011-011 | B | REPLACES REV. A WITH CHANGE PER AXC 192478 REVISED PER TDR 05740 | 8/2/63 | [Signature] | 11/4/63 | [Signature] |
| <p>FOR INFORMATION ONLY</p> <p>CLASS B RELEASE TDR No. _____ DATE _____</p> <p>REPLACES REV A WITH CHANGE</p> | | | | | | | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | CABLE INTERCONNECT W101 BPP TO IMU | | REV B | |
| ACSP PN | | REV STATUS REV | | CODE IDENT NO. | | SIZE A | |
| DRAWN 11/10/63 | | CHECKED 12/10/63 | | 1900954 | | SHEET 1 OF 6 | |
| APPROVAL [Signature] | | APPROVAL [Signature] | | SCALE - | | | |
| NASA APPROVAL [Signature] | | NASA APPROVAL [Signature] | | CONTRACT NAS 9-497 | | | |

| GIG | | CABLE W101 | | B | | 1900954 | |
|---|----------|--|---|-------------|--|---------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | | ITEM QTY | PART NO | DESCRIPTION | | | |
| | 1 AR | 1900954-001 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, WHT. 135 FT. TOTAL LENGTH | | | | |
| | 2 AR | 1900954-002 | TUBING, MODIFIED PVC SHRINK FIT PER 1016197-007 17 FT. TOTAL LENGTH | | | | |
| 13 | 3 1 | MS3106R32-8P | (1897106-080) CONNECTOR-PLUG | | | | |
| 12 | 4 1 | MS3126F18-32SX | (1897092-322) CONNECTOR-PLUG | | | | |
| 10 | 5 1 | 1016237-320 | CLAMP-STRAIN RELIEF | | | | |
| | 6 1 | AN3420- 6 | BUSHING-CABLE ADAPTOR, TELESCOPING | | | | |
| | 7 1 | AN3420- 8 | BUSHING-CABLE ADAPTOR, TELESCOPING | | | | |
| | 8 1 | AN3420- 10 | BUSHING-CABLE ADAPTOR, TELESCOPING | | | | |
| | 9 1 | AN3420- 12 | BUSHING-CABLE ADAPTOR, TELESCOPING | | | | |
| | 10 1 | AN3420- 16 | BUSHING-CABLE ADAPTOR, TELESCOPING | | | | |
| 11 AR | QQ-S-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) | | | | | |
| 12 AR | QQ-S-571 | SOLDER SN60 (ES-2175 ALLOY 1) | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | 1900954 | | | | |
| SCALE - NONE | | REV LTR | B | | | | |
| | | SHEET | 4 OF 6 | | | | |

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1900954 3

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PICTURE INCOMPLETE. DRAWING INFORMATION
WILL FOLLOW WHEN AVAILABLE.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 047074 DATE 11/19/63

| ITEM NO. | NO. REQD | PART OR IDENTIFYING NUMBER | NOMENCLATURE OR DESCRIPTION |
|----------|----------|----------------------------|---|
| 10 | 1 | -16 | |
| 9 | 1 | -12 | |
| 8 | 1 | -10 | |
| 7 | 1 | -8 | |
| 6 | 1 | AN3420-6 | BUSHING, TELESOPING |
| 5 | 1 | 1016237-320 | CLAMP, STRAIN RELIEF |
| 4 | 1 | ND1002181 | WIRE, TYPE I, CLASS 1, WHITE #20 AWG -135 FT LG |
| 3 | 1 | 1016197-007 | TUBING, SHRINK, FLEXIBLE, MODIFIED PVC -16 FT LG |
| 2 | 1 | MS3126F-18-32SX | CONNECTOR, PLUG (1897092-322) |
| 1 | 1 | MS3106R-32-8P | CONNECTOR, PLUG (1897106-80) |

LIST OF PARTS AND MATERIALS

| | | | | | |
|---|-------------|---|---------------------|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | ACSP PN | C LENZ 22 OCT 63 | |
| + | + | + | DRAWN | DATE | |
| - | - | - | CHECKED | J. L. Mutton | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL | R. P. Smith 10-24-63 | |
| MATERIAL | | | APPROVAL | L. J. Gorman 11/19/63 | |
| 1900011-011 | 1900011-011 | NASA APPROVAL | CODE IDENT NO. SIZE | | |
| NEXT ASSY | USED ON | MIT APPROVAL | C 1900954 | | |
| APPLICATION | | CONTRACT NAS9-497 | SCALE SHEET 1 OF 1 | | |

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

9960061 | 3

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| REVISIONS | | | | | | |
|-----------|----------------|------|---|---------------|------------------|------------|
| (N) | SYM | ZONE | DESCRIPTION | CHG NO. | DATE | APPD. |
| | | | | MXC 192479 | 6 MARCH 64 | CJK MEM |
| | A ₁ | | (1) REPLACED WITH CHANGE BY REV. B PER TDRR 08946 | | | |
| | | | | | | |

PICTURE INCOMPLETE. DRAWING INFORMATION
WILL FOLLOW WHEN AVAILABLE.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04704 DATE 11/19/63

Ⓐ REPLACED WITH CHANGE BY REV Ⓑ

| | | | |
|----------|----------|----------------------------|--|
| 8 | 1 | 1016183-001 | TRANSITION, 3-FINGER |
| 7 | 1 | 1016197-006 | TUBING, SHRINK, FLEXIBLE, MODIFIED PVC - 4 FT LG |
| 6 | 1 | 1016197-007 | TUBING, SHRINK, FLEXIBLE, MODIFIED PVC - 8 FT LG |
| 5 | 1 | ND1002181 | WIRE, TYPE I, CLASS 1, WHITE, #20 AWG - 120 FT LG |
| 4 | 1 | 1016134-81 | |
| 3 | 1 | MS3126F-14-19P | (1897089-190) |
| 2 | 1 | MS3126F-12-10PW | (1897038-101) |
| 1 | 1 | MS3126F-12-35Y | CONNECTOR, PLUG (1897039-33) |
| ITEM NO. | NO. REQD | PART OR IDENTIFYING NUMBER | NOMENCLATURE OR DESCRIPTION |

LIST OF PARTS, AND MATERIALS

| | | | | | | | |
|-------------|--|------------------------------|--|---------------------------------------|--|---|--------------|
| | | UNLESS OTHERWISE SPECIFIED - | | AC SPARK PLUG DIVISION, GMC | | MANNED | |
| | | DIMENSIONS ARE IN INCHES | | MILWAUKEE, WISCONSIN | | SPACECRAFT CENTER | |
| | | TOLERANCES ON | | ACSP PN | | HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | C. LENZ 22 OCT 63 | | CABLE, ELECTRICAL, INTERCONNECT-W100 (BPP TO PTC) | |
| | | + - + - + - | | DRAWN DATE | | | |
| | | - - - - - | | CHECKED <i>J. Miller</i> | | | |
| | | | | APPROVAL <i>R. Bink</i> 10-24-63 | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <i>G. Schuman</i> 11/1/63 | | | |
| | | MATERIAL | | NASA APPROVAL <i>[Signature]</i> | | CODE IDENT NO. | SIZE |
| 1900011-011 | | 1900011-011 | | | | C | 1900955 |
| NEXT ASSY | | USED ON | | MIT APPROVAL <i>D. H. G. 11/17/62</i> | | SCALE | SHEET 1 OF 1 |
| APPLICATION | | CONTRACT NAS9-497 | | | | | |

MIL 1977C-1

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| | | | | | | | |
|---------|--|--|--|---------|--|--------------|--|
| GIM | | CABLE W100 | | C | | 1900955 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | |
| 2 | | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | |
| 3 | | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | |
| 4 | | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | |
| 5 | | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | |
| 6 | | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | |
| 7 | | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .25 INCH HIGH CHARACTERS, WHITE. HOT IMPRESSION STAMPING PER ND1002019. | | | | | |
| 8 | | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | |
| 9 | | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | |
| 10 | | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | |
| 11 | | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR WHITE PER ND1002019. HOT IMPRESSION STAMP. | | | | | |
| 12 | | ASSEMBLY CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | |
| 13 | | SEE NOTES 10 AND 12 | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900955 | |
| | | SCALE-NONE | | REV LTR | | SHEET 3 OF 7 | |

| | | | | | | | |
|---------|--|-------------------|-----|---|--|---------|--------------|
| GIM | | CABLE W100 | | C | | 1900955 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | | ITEM | QTY | PART NO | DESCRIPTION | | |
| 12 | | 1 | 1 | MS3126F12-10PW | (1897038-101) CONNECTOR PLUG | | |
| 12 | | 2 | 1 | MS3126F14-19P | (1897089-190) CONNECTOR PLUG | | |
| 13 | | 3 | 1 | 1016134- 81 | CONNECTOR PLUG | | |
| 12 | | 4 | 1 | MS3126F12-35Y | (1897039-33) CONNECTOR PLUG | | |
| | | 5 | 1 | 1900955-001 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT, 129 FEET TOTAL LENGTH | | |
| | | 6 | 1 | 1900955-002 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, WHT, 24 FT. 6 IN., TOTAL LENGTH | | |
| 10 | | 7 | 1 | 1016183-001 | 3 FINGER TRANSITION, HEAT SHRINKABLE | | |
| | | 8 | 1 | 1900955-003 | (1016197-006) TUBING-MODIFIED PVC, FLEXIBLE, 4 FT. TOTAL LENGTH | | |
| | | 9 | 1 | 1900955-004 | (1016197-007) TUBING-MODIFIED PVC, FLEXIBLE, 8 FT. 6 IN., TOTAL LENGTH | | |
| 10 | | 10 | 3 | 1016282-012 | GROMMET, CONNECTOR STRAIN RELIEF | | |
| 10 | | 11 | 1 | 1016282-014 | GROMMET, CONNECTOR STRAIN RELIEF | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900955 |
| | | | | SCALE-NONE | | REV LTR | SHEET 4 OF 7 |

| | | | | | | | |
|---------|--|--|--|---|--|---------|--------------|
| GIM | | CABLE W100 | | C | | 1900955 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED -- | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | |
| | | TOLERANCE | | | | | |
| | | WIRE OR CABLE | | | | | |
| | | WIRE STRIP JACKET WIRE CUT SHIELD | | | | | |
| | | UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | |
| | | 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | | | |
| | | 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | |
| | | OVER 6 FEET +2.00-.00 | | | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900955 |
| | | | | SCALE-NONE | | REV LTR | SHEET 3 OF 7 |

| | | | | | | | |
|---------|--|--|--|---|--|---------|--------------|
| GIM | | CABLE W100 | | B | | 1900955 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED -- | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | |
| | | TOLERANCE | | | | | |
| | | WIRE OR CABLE | | | | | |
| | | WIRE STRIP JACKET WIRE CUT SHIELD | | | | | |
| | | UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | |
| | | 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | | | |
| | | 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | |
| | | OVER 6 FEET +2.00-.00 | | | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900955 |
| | | | | SCALE-NONE | | REV LTR | SHEET 3 OF 7 |

4

9960061 3

2

1

D

C

B

A

PICTURE INCOMPLETE. DRAWING INFORMATION
WILL FOLLOW WHEN AVAILABLE.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04704 DATE 11/19/63

| ITEM NO. | NO. REQD | PART OR IDENTIFYING NUMBER | NOMENCLATURE OR DESCRIPTION |
|----------|----------|----------------------------|---|
| 8 | 1 | 1016183-001 | TRANSITION, 3-FINGER |
| 7 | 1 | 1016197-006 | TUBING, SHRINK, FLEXIBLE, MODIFIED PVC - 4 FT LG |
| 6 | 1 | 1016197-007 | TUBING, SHRINK, FLEXIBLE, MODIFIED PVC - 8 FT LG |
| 5 | 1 | ND1002181 | WIRE, TYPE I, CLASS 1, WHITE, #20 AWG - 120 FT LG |
| 4 | 1 | 1016134-81 | |
| 3 | 1 | MS3126F-14-19P | (1897089-190) |
| 2 | 1 | MS3126F-12-10PW | (1897038-101) |
| 1 | 1 | MS3126F-12-3SY | CONNECTOR, PLUG (1897039-33) |

LIST OF PARTS AND MATERIALS

| | | | | | |
|--|-------------|---|----------------------------------|---|--------------|
| UNLESS OTHERWISE SPECIFIED- DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | CABLE, ELECTRICAL, INTERCONNECT-W100 (BPP TO PTC) | |
| + | - | + | - | | |
| - | - | - | - | | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL <i>E. Blum</i> 10-24-63 | | |
| MATERIAL | | | APPROVAL <i>E. Blum</i> 11/15/63 | | |
| 1900011-011 | 1900011-011 | NASA APPROVAL <i>flamand</i> | | CODE IDENT NO. | SIZE |
| NEXT ASSY | USED ON | MIT APPROVAL <i>D. Kozel</i> 11/19/63 | | C | 1900955 |
| APPLICATION | | CONTRACT NAS9-497 | | SCALE | SHEET 1 of 1 |

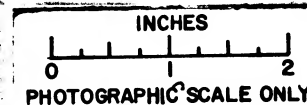
MIL 1077C-P

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3

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|-----------------|--|-------------------|--|--|--|-----------|--|
| GHR | | CABLE W-56 | | A | | 1900956 | |
| PENNANT NOTE | | LIST OF MATERIALS | | | | | |
| ITEM QTY | | PART NO | | DESCRIPTION | | | |
| 1 1 | | 1900956-001 | | WIRE ND1002181 TYPE 3 CLASS 4, WHT. JKT., 20AWG WHT/BLU, WHT/RED, WHT/YEL 18 FT. TOT. LENGTH | | | |
| 2 1 | | 1900956-002 | | WIRE ND1002181 TYPE 2 CLASS 4, WHT. JKT., 20AWG WHT/BLU, WHT/RED, 324 FT. TOTAL LENGTH | | | |
| 3 1 | | 1900956-003 | | WIRE ND1002181 TYPE 1 CLASS 4, WHT. JKT., 20AWG WHT., 72 FT. TOTAL LENGTH | | | |
| 4 1 | | 1900956-004 | | WIRE ND1002181 TYPE 1 CLASS 1, 20AWG, WHITE, 198 FT. TOTAL LENGTH | | | |
| 5 1 | | 1900956-005 | | WIRE ND1002181 TYPE 1 CLASS 1, 22AWG, WHITE, 12 FT. TOTAL LENGTH | | | |
| 6 1 | | 1900956-006 | | WIRE ND1002181 TYPE 2 CLASS 1, T2, 20AWG, WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY) 55 FT. TOTAL LENGTH | | | |
| 16 7 1 | | MS3126F24-61P | | (1897047-610) CONNECTOR-PLUG | | | |
| 16 8 1 | | MS3126F24-61S | | (1897048-610) CONNECTOR-PLUG | | | |
| 10 9 4 | | 1000243-004 | | FERRULE ELEC. COND. | | | |
| 10 10 4 | | 1000242-004 | | FERRULE ELEC. COND. | | | |
| 10 11 18 | | 1000243-011 | | FERRULE ELEC. COND. | | | |
| 10 12 18 | | 1000242-009 | | FERRULE ELEC. COND. | | | |
| 10 13 1 | | 1000243-015 | | FERRULE ELEC. COND. | | | |
| 10 14 1 | | 1000242-016 | | FERRULE ELEC. COND. | | | |
| 10 15 4 | | 1010490-198 | | INSULATION-SLEEVING, ELEC. | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| | | | | SCALE-NONE | | REV LTR A | |
| | | | | | | 1900956 | |
| | | | | SHEET 5 OF 15 | | | |

| | | | | | |
|---------|----------|-------------------|---|---|---------|
| GHR | | CABLE W-56 | | A | 1900956 |
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | |
| 10 | 16 4 | 1010490-200 | INSULATION-SLEEVING ELEC. | | |
| 10 | 17 19 | 1010490-194 | INSULATION-SLEEVING ELEC. | | |
| 10 | 18 19 | 1010490-196 | INSULATION-SLEEVING ELEC. | | |
| 10 | 19 4 | 1010490-256 | INSULATION-SLEEVING ELEC. | | |
| 10 | 20 6 | 1010490-188 | INSULATION-SLEEVING ELEC. | | |
| 10 | 21 4 | 1016006-003 | SPLICE REDUCER | | |
| 10 | 22 2 | 1016128-041 | BAND-IDENTIFICATION | | |
| 10 | 23 1 | 1016128-011 | BAND-IDENTIFICATION | | |
| | 24 1 | 1900956-007 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE 1.125 DIA. 18 FT. TOTAL LENGTH | | |
| | 25 AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) | | |
| 20 | 26 | | CONTACT PINS | | |
| 21 | 27 | | CONTACT, SOCKETS | | |
| 22 | 28 AR | 1897147-112, -116 | CABLE CLAMP SLEEVE | | |

| | | |
|--|------------------|------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR A | SHEET 6 OF 15 |

| GHR | | CABLE W-56 | | | | | | | | | | A | | 1900956 | | | | | | | | | | | | | |
|--|--|------------|--|---|--|---------------|-------------|----------|--|--------------------|--|-----|-------------|----------------------|--|---------------|--|----------|--|-------|--|---------------|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | TO | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION | | | CUT WIRE OR SHIELD | | | TERMINATION | | | | | | | | | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | SPEC. | | NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | SPEC. | | NO. | | | | | |
| A 1 | | 6 | | | | | | A 20 | | | | | | A 20 | | | | | | | | | | | | | |
| A 1L | | | | P1-C | | 22N | | 26 | | | | | | P2-C | | 22N | | 27 | | | | | | | | | |
| A 1R | | | | P1-B | | 22N | | 26 | | | | | | P2-B | | 22N | | 27 | | | | | | | | | |
| A 2 | | 6 | | | | | | A 20 | | | | | | | | | | A 20 | | | | | | | | | |
| A 2L | | | | P1-E | | 22N | | 26 | | | | | | P2-E | | 22N | | 27 | | | | | | | | | |
| A 2R | | | | P1-D | | 22N | | 26 | | | | | | P2-D | | 22N | | 27 | | | | | | | | | |
| A 3 | | 6 | | | | | | A 20 | | | | | | | | | | A 20 | | | | | | | | | |
| A 3L | | | | P1-G | | 22N | | 26 | | | | | | P2-G | | 22N | | 27 | | | | | | | | | |
| A 3R | | | | P1-F | | 22N | | 26 | | | | | | P2-F | | 22N | | 27 | | | | | | | | | |
| A 4 | | 4 | | | | P1-N | | 22N | | 26 | | | | P2-N | | 22N | | 27 | | | | | | | | | |
| A 5 | | 4 | | | | P1-P | | 22N | | 26 | | | | P2-P | | 22N | | 27 | | | | | | | | | |
| A 6 | | 4 | | | | P1-R | | 22N | | 26 | | | | P2-R | | 22N | | 27 | | | | | | | | | |
| A 7 | | 2 | | | | | | 23Q | | 200 11 12 | | 5 | | | | 23Q | | 200 | | A 18 | | 7A | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | |
| A 7A | | 5 | | SHLD A7 | | 22N | | | | | | | | E1 | | 37N | | | | | | | | | | | |
| A 7L | | | | P1-T | | 22N | | 26 | | | | | | P2-T | | 22N | | 27 | | | | | | | | | |
| A 7R | | | | P1-U | | 22N | | 26 | | | | | | P2-U | | 22N | | 27 | | | | | | | | | |
| A 8 | | 3 | | | | | | 23Q | | 200 9 10 | | 5 | | | | 23Q | | 200 | | A 16 | | 7A | | | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | 1900956 | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | A | | | | | | | | | | | | | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE-NONE | | | | | | | | | | REV LTR | | | | | | | | | | A | | SHEET 7 OF 15 | | | | | |

GHR

CABLE #-56

A

1900956

| CONDUCTOR | | FROM | | TO | |
|----------------------|---|----------------------|-----------------|----------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| TERMINATION SPEC. | | TERMINATION SPEC. | | TERMINATION SPEC. | |
| NO. | | NO. | | NO. | |
| ITEM NO. | | ITEM NO. | | ITEM NO. | |
| STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| A 15 | | A 15 | | A 15 | |
| A 8A | 5 | SHLD A8 | 22N | E1 | 37N |
| A 8W | | P1-S | 22N 26 | P2-S | 22N 27 |
| A 9 | 2 | | 23Q 200 11 12 5 | | 23Q 200 A 18 7A |
| A 17 | | A 17 | | A 17 | |
| A 9A | 5 | SHLD A9 | 22N | E1 | 37N |
| A 9L | | P1-W | 22N 26 | P2-W | 22N 27 |
| A 9R | | P1-V | 22N 26 | P2-V | 22N 27 |
| A 10 | 2 | | 23Q 200 11 12 5 | | 23Q 200 A 18 7A |
| A 17 | | A 17 | | A 17 | |
| A 10A | 5 | SHLD A10 | 22N | E1 | 37N |
| A 10L | | P1-Y | 22N 26 | P2-Y | 37N 27 |
| A 10R | | P1-X | 22N 26 | P2-X | 37N 27 |
| A 11 | 3 | | 23Q 200 9 10 5 | | 23Q 200 A 16 7A |
| A 15 | | A 15 | | A 15 | |
| A 11A | 5 | SHLD A11 | 22N | E1 | 37N |
| A 11W | | P1-Z | 22N 26 | P2-Z | 22N 27 |
| A 12 | 4 | P1-B* | 22N 26 | P2-B* | 22N 27 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900956

SCALE-NONE

REV LTR

A

SHEET 8 OF 15

| GHR | | | | | | | | | | CABLE W-56 | | | | | | | | | | A | | | | | | | | | | 1900956 | | | | | | | | | |
|---|-----|----------|--|----------------------|--|---------------|--|-------|------------------|------------|----|---|-------|--------------------|--|-------|-----|----------|------------------|----|--|-------------------------|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | T 1 N | | ITEM NO. | | T 1 N | | ITEM NO. | | T 1 N | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | |
| A | 13 | 2 | | | | | | 280 | 250 | 11 | 12 | 5 | | | | | 280 | 250 | A 18 | 7A | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 13A | 5 | | SHLD A13 | | | | 22N | | | | | E2 | | | | 37N | | | | | | | | | | | | | | | | | | | | | | |
| A | 13L | | | P1-D* | | | | 22N | | 26 | | | P2-D* | | | | 22N | | 27 | | | | | | | | | | | | | | | | | | | | |
| A | 13R | | | P1-C* | | | | 22N | | 26 | | | P2-C* | | | | 22N | | 27 | | | | | | | | | | | | | | | | | | | | |
| A | 14 | 2 | | | | | | 280 | 250 | 11 | 12 | 5 | | | | | 280 | 250 | A 18 | 7A | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 14A | 5 | | SHLD A14 | | | | 22N | | | | | E2 | | | | 37N | | | | | | | | | | | | | | | | | | | | | | |
| A | 14L | | | P1-F* | | | | 22N | | 26 | | | P2-F* | | | | 22N | | 27 | | | | | | | | | | | | | | | | | | | | |
| A | 14R | | | P1-E* | | | | 22N | | 26 | | | P2-E* | | | | 22N | | 27 | | | | | | | | | | | | | | | | | | | | |
| A | 15 | 2 | | | | | | 280 | 250 | 11 | 12 | 5 | | | | | 280 | 250 | A 18 | 7A | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 15A | 5 | | SHLD A15 | | | | 22N | | | | | E2 | | | | 37N | | | | | | | | | | | | | | | | | | | | | | |
| A | 15L | | | P1-H* | | | | 22N | | 26 | | | P2-H* | | | | 22N | | 27 | | | | | | | | | | | | | | | | | | | | |
| A | 15R | | | P1-G* | | | | 22N | | 26 | | | P2-G* | | | | 22N | | 27 | | | | | | | | | | | | | | | | | | | | |
| A | 16 | 2 | | | | | | 280 | 250 | 11 | 12 | 5 | | | | | 280 | 250 | A 18 | 7A | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 16A | 5 | | SHLD A16 | | | | 22N | | | | | E2 | | | | 37N | | | | | | | | | | | | | | | | | | | | | | |
| 1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A 1900956 | | | | | | | | | | | | | | | | | |
| 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SCALE-NONE | | | | | | | | | | REV LTR A SHEET 9 OF 15 | | | | | | | | | | | | | | | | | |

| GHR | | | | | | | | | | CABLE # -56 | | | | | | | | | | A | | | | | | | | | | 1900956 | | | | | | | | | |
|--|-----|----------|--|--------------------|--|----------|-----|-------------|----|---|--|--------------------|----|----------|--|---------------|-----|----------|----|--------------------|--|---------------|--|-------------|--|----------|--|--------------------|--|----------------|--|-------------|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | TO | | | | CONDUCTOR | | | | FROM | | | | TO | | | | CONDUCTOR | | | | FROM | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | | | |
| NUMBER | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | | | | | | | | |
| A | 16L | | | P1-J* | | 22N | 26 | | | P2-J* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 16R | | | P1-I* | | 22N | 26 | | | P2-I* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 17 | 2 | | | | 330 | 300 | 11 | 12 | 5 | | | | | | 330 | 300 | A 18 | 7A | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 17A | 5 | | SHLD A17 | | 22N | | | | E2 | | 37N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 17L | | | P1-M* | | 22N | 26 | | | P2-M* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 17R | | | P1-K* | | 22N | 26 | | | P2-K* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 18 | 2 | | | | 330 | 300 | 11 | 12 | 5 | | | | | | 330 | 300 | A 18 | 7A | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 18A | 5 | | SHLD A18 | | 22N | | | | E2 | | 37N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 18L | | | P1-P* | | 22N | 26 | | | P2-P* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 18R | | | P1-N* | | 22N | 26 | | | P2-N* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 19 | 2 | | | | 330 | 300 | 11 | 12 | 5 | | | | | | 330 | 300 | A 18 | 7A | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 19A | 5 | | SHLD A19 | | 22N | | | | E2 | | 37N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 19L | | | P1-R* | | 22N | 26 | | | P2-R* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 19R | | | P1-Q* | | 22N | 26 | | | P2-Q* | | 22N | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 20 | 2 | | | | 330 | 300 | 11 | 12 | 5 | | | | | | 330 | 300 | A 18 | 7A | | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | 1900956 | | | | | | | | | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR A | | | | | | | | | | SHEET 10 OF 15 | | | | | | | | | |

| GHR | | CABLE W-56 | | | | | | | | | | A | | 1900956 | | | | | | | | | | | | | | | | | | | |
|-------------------|--|------------|----------------------|--|---------------|--|--|-------------|--|---|--|---|----------------------|---------|---------------|--|-------------|-------------|--|---------------|--|---------|--|---------------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | | | | | | | | | | | |
| | | | STRIP WIRE OR JACKET | | | | | SPEC. | | | | | STRIP WIRE OR JACKET | | | | | SPEC. | | | | | | | | | | | | | | | |
| NUMBER | | | ITEM NO. | | CIRCUIT POINT | | | ITEM NO. | | CIRCUIT POINT | | | ITEM NO. | | CIRCUIT POINT | | | ITEM NO. | | CIRCUIT POINT | | | | | | | | | | | | | |
| A 20A | | | 5 | | SHLD A20 | | | 22N | | A 17 | | | E3 | | 37N | | | | | | | | | | | | | | | | | | |
| A 20L | | | | | P1-T* | | | 22N | | 26 | | | P2-T* | | 22N | | 27 | | | | | | | | | | | | | | | | |
| A 20R | | | | | P1-S* | | | 22N | | 26 | | | P2-S* | | 22N | | 27 | | | | | | | | | | | | | | | | |
| A 21 | | | 4 | | P1-U* | | | 22N | | 26 | | | P1-U* | | 22N | | 26 | | | | | | | | | | | | | | | | |
| A 22 | | | 4 | | P1-V* | | | 22N | | 26 | | | P1-V* | | 22N | | 26 | | | | | | | | | | | | | | | | |
| A 23 | | | 4 | | P1-W* | | | 22N | | 26 | | | P1-W* | | 22N | | 26 | | | | | | | | | | | | | | | | |
| A 24 | | | 3 | | | | | 380 | | 350 9 10 5 | | | | | 380 | | 350 A 16 7A | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 15 | | | | | | | | | | | | | | | | | | | | | | | |
| A 24A | | | 5 | | SHLD A24 | | | 22 | | | | | E3 | | 37N | | | | | | | | | | | | | | | | | | |
| A 24L | | | | | P1-X* | | | 22 | | 26 | | | P2-X* | | 22N | | 27 | | | | | | | | | | | | | | | | |
| A 25 | | | 2 | | | | | 380 | | 350 11 12 5 | | | | | 380 | | 350 A 16 7A | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | |
| A 25A | | | 5 | | SHLD A25 | | | 22N | | | | | E3 | | 37N | | | | | | | | | | | | | | | | | | |
| A 25L | | | | | P1-Z* | | | 22N | | 26 | | | P2-Z* | | 22N | | 27 | | | | | | | | | | | | | | | | |
| A 25R | | | | | P1-Y* | | | 22N | | 26 | | | P2-Y* | | 22N | | 27 | | | | | | | | | | | | | | | | |
| A 26 | | | 2 | | | | | 380 | | 350 11 12 5 | | | | | 380 | | 350 A 16 7A | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | 1900956 | | | | | | | | | | | |
| | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR | | A | | SHEET 11 OF 4 | | | | | | | | | |

GHR

CABLE W-56

B

1900956

| LIST OF MATERIALS | | | | |
|-------------------|------|----------|-------------------|--|
| PENNANT | NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | 10 | 16 10 | 1010490-200 | INSULATION-SLEEVEING ELEC. |
| | 10 | 17 11 | 1010490-194 | INSULATION-SLEEVEING ELEC. |
| | 10 | 18 11 | 1010490-196 | INSULATION-SLEEVEING ELEC. |
| | 10 | 19 4 | 1010490-256 | INSULATION-SLEEVEING ELEC. |
| | 10 | 20 6 | 1010490-188 | INSULATION-SLEEVEING ELEC. |
| | 10 | 21 4 | 1016006-003 | SPLICE REDUCER |
| | 10 | 22 2 | 1016128-041 | BAND-IDENTIFICATION |
| | 10 | 23 1 | 1016128-011 | BAND-IDENTIFICATION |
| | | 24 1 | 1900956-007 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE 1.125 DIA. 18 FT. TOTAL LENGTH |
| | | 25 AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) |
| | 20 | 26 | | CONTACT PINS |
| | 21 | 27 | | CONTACT, SOCKETS |
| | 22 | 28 AR | 1897147-112, -116 | CABLE CLAMP SLEEVE |
| | | 29 1 | 1900956-008 | WIRE COAXIAL MIL-L 17/69A 188A/U, 24 FT TOT. LG |
| | | 30 8 | 1000243-006 | FERRULE ELEC, COND. |
| | | 31 8 | 1000242-005 | FERRULE ELEC, COND. |
| | | 32 8 | 1016369-188 | INNER MALE PIN |

| | | |
|---|---------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR | B |
| SHEET 6 OF 18 | | |

MIL 2084 4-63

GHR

CABLE W-56

D

1900956

| LIST OF MATERIALS | | | | |
|-------------------|------|----------|-------------|---|
| PENNANT | NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | | 33 8 | 1016369-488 | OUTER FEMALE BODY |
| | | 34 8 | 1016369-588 | HYRING |
| | | 35 4 | 1016369-421 | CONTACT SOCKETS |
| | | 36 2 | 1900956-009 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-007, 3 FEET TOTAL LENGTH |
| | | 37 1 | 1900956-010 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 3 FEET TOTAL LENGTH. |
| | | 38 3 | 1016369-141 | SOCKET BODY CONNECTOR |
| | | 39 1 | 1902170-004 | POLARIZING SHELL |
| | | 40 1 | 1902170-005 | POLARIZING SHELL |
| | | 41 1 | 1902170-003 | POLARIZING SHELL |
| | | 42 1 | 1900956-011 | ZIPPER TUBING ND 1002155, TYPE 1 PLASTIC FLEXIBLE, 2 IN. DIA., 5 IN. TOT. LENGTH |

| | | |
|---|---------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR | D |
| SHEET 7 OF 18 | | |

MIL 2084 4-63

GHR

CABLE W-56

B

1900956

| LIST OF MATERIALS | | | | |
|-------------------|------|----------|-----------------------------|--|
| PENNANT | NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | | 1 | | DELETED 1900956-001 |
| | | 2 1 | 1900956-002 | WIRE ND1002181 TYPE 2 CLASS 4, WHT. JKT., 20AWG WHT/BLU, WHT/RED, 198 FT. TOTAL LENGTH |
| | | 3 1 | 1900956-003 | WIRE ND1002181 TYPE 1 CLASS 4, WHT. JKT., 20AWG WHT., 48 FT. TOTAL LENGTH |
| | | 4 1 | 1900956-004 | WIRE ND1002181 TYPE 1 CLASS 1, 20AWG, WHITE, 198 FT. TOTAL LENGTH |
| | | 5 1 | 1900956-005 | WIRE ND1002181 TYPE 1 CLASS 1, 22AWG, WHITE, 12 FT. TOTAL LENGTH |
| | | 6 1 | 1900956-006 | WIRE ND1002181 TYPE 2 CLASS 1, T2, 20AWG, WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY) 55 FT. TOTAL LENGTH |
| | 16 | 7 1 | MS3126F24-61P (1897047-610) | CONNECTOR-PLUG |
| | 16 | 8 1 | MS3126F24-61S (1897048-610) | CONNECTOR-PLUG |
| | 10 | 9 2 | 1000243-004 | FERRULE ELEC. COND. |
| | 10 | 10 2 | 1000242-004 | FERRULE ELEC. COND. |
| | 10 | 11 11 | 1000243-011 | FERRULE ELEC. COND. |
| | | 13 | | DELETED 1000243-015 |
| | | 14 | | DELETED 1000242-016 |
| | 10 | 15 10 | 1010490-198 | INSULATION-SLEEVEING, ELEC. |

| | | |
|---|---------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR | B |
| SHEET 5 OF 18 | | |

MIL 2084 4-63

GHR

CABLE W-56

B

1900956

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|---|---|----------------------|-----|----|------|----------------------|-----|----|------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | ITEM NO. | 1 | 2 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | |
| | | | | ITEM NO. | | | | ITEM NO. | | | |
| A | 1 | 6 | | | | | A 20 | | | | A 20 |
| A | 1L | | | P1-C | 22N | 26 | | P2-C | 22N | 27 | |
| A | 1R | | | P1-B | 22N | 26 | | P2-B | 22N | 27 | |
| A | 2 | 6 | | | | | A 20 | | | | A 20 |
| A | 2L | | | P1-E | 22N | 26 | | P2-E | 22N | 27 | |
| A | 2R | | | P1-D | 22N | 26 | | P2-D | 22N | 27 | |
| A | 3 | 6 | | | | | A 20 | | | | A 20 |
| A | 3L | | | P1-G | 22N | 26 | | P2-G | 22N | 27 | |
| A | 3R | | | P1-F | 22N | 26 | | P2-F | 22N | 27 | |
| A | 4 | 4 | | P1-N | 22N | 26 | | P2-N | 22N | 27 | |
| A | 5 | 4 | | P1-P | 22N | 26 | | P2-P | 22N | 27 | |
| A | 6 | 4 | | P1-R | 22N | 26 | | P2-R | 22N | 27 | |
| A | 7 | | | DELETED | | | | | | | |
| A | 7A | | | DELETED | | | | | | | |
| A | 7L | | | DELETED | | | | | | | |
| A | 7R | | | DELETED | | | | | | | |
| A | 8 | | | DELETED | | | | | | | |
| A | 8A | | | DELETED | | | | | | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900956

SCALE-NONE

REV LTR

B

SHEET

8 OF

MIL 2085 4-63 WIR

GHR CABLE W-56 B 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|---------------------|-----|----------------------|---------------|---------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 14 | 2 | | 280 250 11 12 | 5 | | 280 250 | A 18 7A | | |
| | | | | | | | | | |
| A 14A | 5 | SHLD A14 | 22N | | | E2 | 37N | | |
| A 14L | | P1-F* | 22N | 26 | | P2-F* | 22N | 27 | |
| A 14R | | P1-E* | 22N | 26 | | P2-E* | 22N | 27 | |
| A 15 | 2 | | 280 250 11 12 | 5 | | 280 250 | A 18 7A | | |
| | | | | | | | | | |
| A 15A | 5 | SHLD A15 | 22N | | | E2 | 37N | | |
| A 15L | | P1-H* | 22N | 26 | | P2-H* | 22N | 27 | |
| A 15R | | P1-G* | 22N | 26 | | P2-G* | 22N | 27 | |
| A 16 | 2 | | 280 250 11 12 | 5 | | 280 250 | A 18 7A | | |
| | | | | | | | | | |
| A 16A | 5 | SHLD A16 | 22N | | | E2 | 37N | | |
| A 16L | | P1-J* | 22N | 26 | | P2-J* | 22N | 27 | |
| A 16R | | P1-I* | 22N | 26 | | P2-I* | 22N | 27 | |
| A 17 | | DELETED | | | | | | | |
| A 17A | | DELETED | | | | | | | |
| A 17L | | DELETED | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR B SHEET 10 OF 18

GHR CABLE W-56 B 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|---------------------|-----|----------------------|---------------|---------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 17R | | DELETED | | | | | | | |
| A 18 | 2 | | 330 300 11 12 | 5 | | 330 300 | A 18 7A | | |
| | | | | | | | | | |
| A 18A | 5 | SHLD A18 | 22N | | | E2 | 37N | | |
| A 18L | | P1-P* | 22N | 26 | | P2-P* | 22N | 27 | |
| A 18R | | P1-N* | 22N | 26 | | P2-N* | 22N | 27 | |
| A 19 | | DELETED | | | | | | | |
| A 19A | | DELETED | | | | | | | |
| A 19L | | DELETED | | | | | | | |
| A 19R | | DELETED | | | | | | | |
| A 20 | 2 | | 330 300 11 12 | 5 | | 330 300 | A 18 7A | | |
| | | | | | | | | | |
| A 20A | 5 | SHLD A20 | 22N | | | E3 | 37N | | |
| A 20L | | P1-T* | 22N | 26 | | P2-T* | 22N | 27 | |
| A 20R | | P1-S* | 22N | 26 | | P2-S* | 22N | 27 | |
| A 21 | | DELETED | | | | | | | |
| A 22 | 4 | P1-V* | 22N | 26 | | P1-V* | 22N | 26 | |
| A 23 | 4 | P1-W* | 22N | 26 | | P1-W* | 22N | 26 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR B SHEET 11 OF 18

GHR CABLE W-56 B 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|---------------------|-----|----------------------|---------------|---------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 8W | | DELETED | | | | | | | |
| A 9 | | DELETED | | | | | | | |
| A 9A | | DELETED | | | | | | | |
| A 9L | | DELETED | | | | | | | |
| A 9R | | DELETED | | | | | | | |
| A 10 | | DELETED | | | | | | | |
| A 10A | | DELETED | | | | | | | |
| A 10L | | DELETED | | | | | | | |
| A 10R | | DELETED | | | | | | | |
| A 11 | | DELETED | | | | | | | |
| A 11A | | DELETED | | | | | | | |
| A 11W | | DELETED | | | | | | | |
| A 12 | 4 | P1-B* | 22N | 26 | | P2-B* | 22N | 27 | |
| A 13 | 2 | | 280 250 11 12 | 5 | | 280 250 | A 18 7A | | |
| | | | | | | | | | |
| A 13A | 5 | SHLD A13 | 22N | | | E2 | 37N | | |
| A 13L | | P1-D* | 22N | 26 | | P2-D* | 22N | 27 | |
| A 13R | | P1-C* | 22N | 26 | | P2-C* | 22N | 27 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR B SHEET 9 OF 18

GHR CABLE W-56 B 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|---------------------|-----|----------------------|---------------|---------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1 | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 24 | 3 | | 380 350 9 10 | 5 | | 380 350 | A 16 7A | | |
| | | | | | | | | | |
| A 24A | 5 | SHLD A24 | 22 | | | E3 | 37N | | |
| A 24W | | P1-X* | 22 | 26 | | P2-X* | 22N | 27 | |
| A 25 | 2 | | 380 350 11 12 | 5 | | 380 350 | A 18 7A | | |
| | | | | | | | | | |
| A 25A | 5 | SHLD A25 | 22N | | | E3 | 37N | | |
| A 25L | | P1-Z* | 22N | 26 | | P2-Z* | 22N | 27 | |
| A 25R | | P1-Y* | 22N | 26 | | P2-Y* | 22N | 27 | |
| A 26 | | DELETED | | | | | | | |
| A 26A | | DELETED | | | | | | | |
| A 26L | | DELETED | | | | | | | |
| A 26R | | DELETED | | | | | | | |
| A 27 | | DELETED | | | | | | | |
| A 27A | | DELETED | | | | | | | |
| A 27L | | DELETED | | | | | | | |
| A 27R | | DELETED | | | | | | | |
| A 28 | 2 | | 430 400 11 12 | | | 430 400 | A 18 7A | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR B SHEET 12 OF 18

| CONDUCTOR | | | | | | FROM | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-----|----|--|--|--|----------------------|--|--|--|-------------------|--|--|--|-----|------|-----|-----|----------------------|----|--|--|-------------------|--|--|--|-----|--|--|--|-------|-------|-----|------|------|----|--|--|--|--|--|--|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | STRIP WIRE OR JACKET | | | | ITEM NO. | | | | | | | | STRIP WIRE OR JACKET | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | CIRCUIT POINT | | | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 33L | | | | | P1-MM | | | | | | | | | | 26 | | | | | | | | | | | | | | | P2-MM | 22N | | 27 | | | | | | | | | | | | | |
| A | 33R | | | | | P1-LL | | | | | | | | | | 26 | | | | | | | | | | | | | | | P2-LL | 22N | | 27 | | | | | | | | | | | | | |
| A | 34 | 2 | | | | | | | | | | | | | | 480 | 450 | 11 | 12 | | | | | | | | | | | | | 480 | 450 | A 18 | 7A | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | A 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 34A | 5 | | | | SHLD A34 | | | | | | | | | 22N | | | | | | | | | | | | | | | E4 | 22N | | | | | | | | | | | | | | | | |
| A | 34L | | | | | P1-AA | | | | | | | | | 22N | | 26 | | | | | | | | | | | | | P2-AA | 22N | | 27 | | | | | | | | | | | | | | |
| A | 34R | | | | | P1-NN | | | | | | | | | 22N | | 26 | | | | | | | | | | | | | P2-NN | 22N | | 27 | | | | | | | | | | | | | | |
| A | 35 | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 35A | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 35L | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 35R | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 35Y | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 36 | 4 | | | | P1-H | | | | | | | | | 22N | | 26 | | | | | | | | | | | | | E1 | 22N | | | | | | | | | | | | | | | | |
| A | 37 | 4 | | | | E1 | | | | | | | | | 22N | | | | | | | | | | | | | | | E2 | 22N | | | | | | | | | | | | | | | | |
| A | 38 | 4 | | | | E2 | | | | | | | | | 22N | | | | | | | | | | | | | | | E3 | 22N | | | | | | | | | | | | | | | | |
| A | 39 | 4 | | | | E3 | | | | | | | | | 22N | | | | | | | | | | | | | | | E4 | 22N | | | | | | | | | | | | | | | | |
| | 40 | 29 | | | | | | | | | | | | | 230 | 200 | 30 | 31 | | | | | | | | | | | | | 56 | | A 16 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| CONDUCTOR | | | | | | FROM | | | | | | | | TO | | | | | | | | | | | | | | | |
|-------------------|-----|----|--|--|--|----------------------|-----|-----|----|-------------------|---|--|--|-----|--|-----------|-----|----------------------|----|----|---|-------------------|--|--|--|-----|--|--|--|
| INDIVIDUAL LENGTH | | | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | | |
| | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | |
| | | | | | | CIRCUIT POINT | | | | ITEM NO. | | | | | | | | CIRCUIT POINT | | | | ITEM NO. | | | | | | | |
| A | 40A | 5 | | | | SHLD A40 | 37N | | | | | | | | | P2-M* | 22N | | | | | | | | | | | | |
| A | 40B | | | | | SHLD A40 | | | | | | | | | | P3-B SHLD | N | 25 | 33 | 34 | | | | | | | | | |
| A | 40W | | | | | P2-K* | 22N | 27 | | | | | | | | P3-B | 18 | | 32 | | | | | | | | | | |
| A | 41 | 29 | | | | | 230 | 200 | 30 | 31 | 5 | | | | | | 56 | | A | 1 | 6 | | | | | | | | |
| | | | | | | | | | A | 15 | | | | | | | | | | | | | | | | | | | |
| A | 41A | 5 | | | | SHLD A41 | 37N | | | | | | | | | P2-T | 22N | | 27 | | | | | | | | | | |
| A | 41B | | | | | SHLD A41 | | | | | | | | | | P3-E SHLD | N | 25 | 33 | 34 | | | | | | | | | |
| A | 41W | | | | | P2-U | 22N | 27 | | | | | | | | P3-E | 18 | | 32 | | | | | | | | | | |
| A | 42 | 4 | | | | P2-S | 22N | 27 | | | | | | | | P3-F | 22N | | 35 | | | | | | | | | | |
| A | 43 | 29 | | | | | 230 | 200 | 30 | 31 | 5 | | | | | | 56 | | A | 16 | | | | | | | | | |
| | | | | | | | | | A | 15 | | | | | | | | | | | | | | | | | | | |
| A | 43A | 5 | | | | SHLD A43 | 37N | | | | | | | | | P2-W | 22N | | 27 | | | | | | | | | | |
| A | 43B | | | | | SHLD A43 | | | | | | | | | | P3-J SHLD | N | 25 | 33 | 34 | | | | | | | | | |
| A | 43W | | | | | P2-V | 22N | 27 | | | | | | | | P3-J | 18 | | 32 | | | | | | | | | | |
| A | 44 | 29 | | | | | 230 | 200 | 30 | 31 | 5 | | | | | | 56 | | A | 16 | | | | | | | | | |
| | | | | | | | | | A | 15 | | | | | | | | | | | | | | | | | | | |
| A | 44A | 5 | | | | SHLD A44 | 37N | | | | | | | | | P2-Y | 22N | | 27 | | | | | | | | | | |
| A | 44B | | | | | SHLD A44 | | | | | | | | | | P3-M SHLD | N | 25 | 33 | 34 | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SCALE - NONE REV LTR B

1900956 SHEET 15 OF 18

| GHR | | | | | | | | | | CABLE W-56 | | | | | | | | | | B | | | | | | | | | | 1900956 | | | | | | | | | |
|-------------------|---|----------|--|----------------------|--|---------------|--|-----|-------------------|------------|--|----------------------|--|--------------------|--|-----|--|----------|-------------------|---|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | T N | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | T N | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 28A | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 28L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 28R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 29 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 29A | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 29W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 30 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32A | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 33 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 33A | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE

A

1900956

SHEET 13 OF 18

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----------|---|----------------------|---|-----|-----|-------------------|---|----------------------|------|--------------------|-----|-----|----------|-------------------|--|--|-----|--|----|--|--|--|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | NO. | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | NO. | | | | | | | | | | | |
| NUMBER | ITEM NO. | 2 | STRIP WIRE OR JACKET | 2 | T N | 3 | ITEM NO. | 1 | STRIP WIRE OR JACKET | | 2 | T N | 3 | ITEM NO. | 1 | | | | | | | | | | | | | | |
| A 44W | | | P2-X | | 22N | | 27 | | | | P3-M | | 18 | | 32 | | | | | | | | | | | | | | |
| A 45 | | | P2-Z | | 22N | | 27 | | | | P3-D | | 22N | | 35 | | | | | | | | | | | | | | |
| A 46 | 29 | | | | 330 | 300 | 30 31 | 5 | | | | | 56 | | A 16 | | | | | | | | | | | | | | |
| | | | | | | | A 15 | | | | | | | | | | | | | | | | | | | | | | |
| A 46A | 5 | | SHLD A46 | | 37N | | | | | | P2-EE | | 22N | | 27 | | | | | | | | | | | | | | |
| A 46B | | | SHLD A46 | | | | | | | | P4-E SHLD | | N | 25 | 33 34 | | | | | | | | | | | | | | |
| A 46W | | | P2-DD | | 22N | | 27 | | | | P4-E | | 18 | | 32 | | | | | | | | | | | | | | |
| A 47 | 29 | | | | 330 | 300 | 30 31 | 5 | | | | | 56 | | A 16 | | | | | | | | | | | | | | |
| | | | | | | | A 15 | | | | | | | | | | | | | | | | | | | | | | |
| A 47A | 5 | | SHLD A47 | | 37N | | | 5 | | | P2-CC | | 22N | | 27 | | | | | | | | | | | | | | |
| A 47B | | | SHLD A47 | | | | | | | | P4-J SHLD | | N | 25 | 33 34 | | | | | | | | | | | | | | |
| A 47W | | | P2-BB | | 22N | | 27 | | | | P4-J | | 18 | | 32 | | | | | | | | | | | | | | |
| A 48 | 29 | | | | 330 | 300 | 30 31 | 5 | | | | | 56 | | A 16 | | | | | | | | | | | | | | |
| | | | | | | | A 15 | | | | | | | | | | | | | | | | | | | | | | |
| A 48A | 5 | | SHLD A48 | | 37N | | | | | | P2-K | | 22N | | 27 | | | | | | | | | | | | | | |
| A 48B | | | SHLD A48 | | | | | | | | P5-J SHLD | | N | 25 | 33 34 | | | | | | | | | | | | | | |
| A 48W | | | P2-J | | 22N | | 27 | | | | P5-J | | 18 | | 32 | | | | | | | | | | | | | | |
| A 49 | 29 | | | | 330 | 300 | 30 31 | 5 | | | | | 56 | | A 16 | | | | | | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

SCALE - NONE REV LTR B

1900956

SHEET 16 OF 18

1900956

[illegible]

4

9560061 3

2

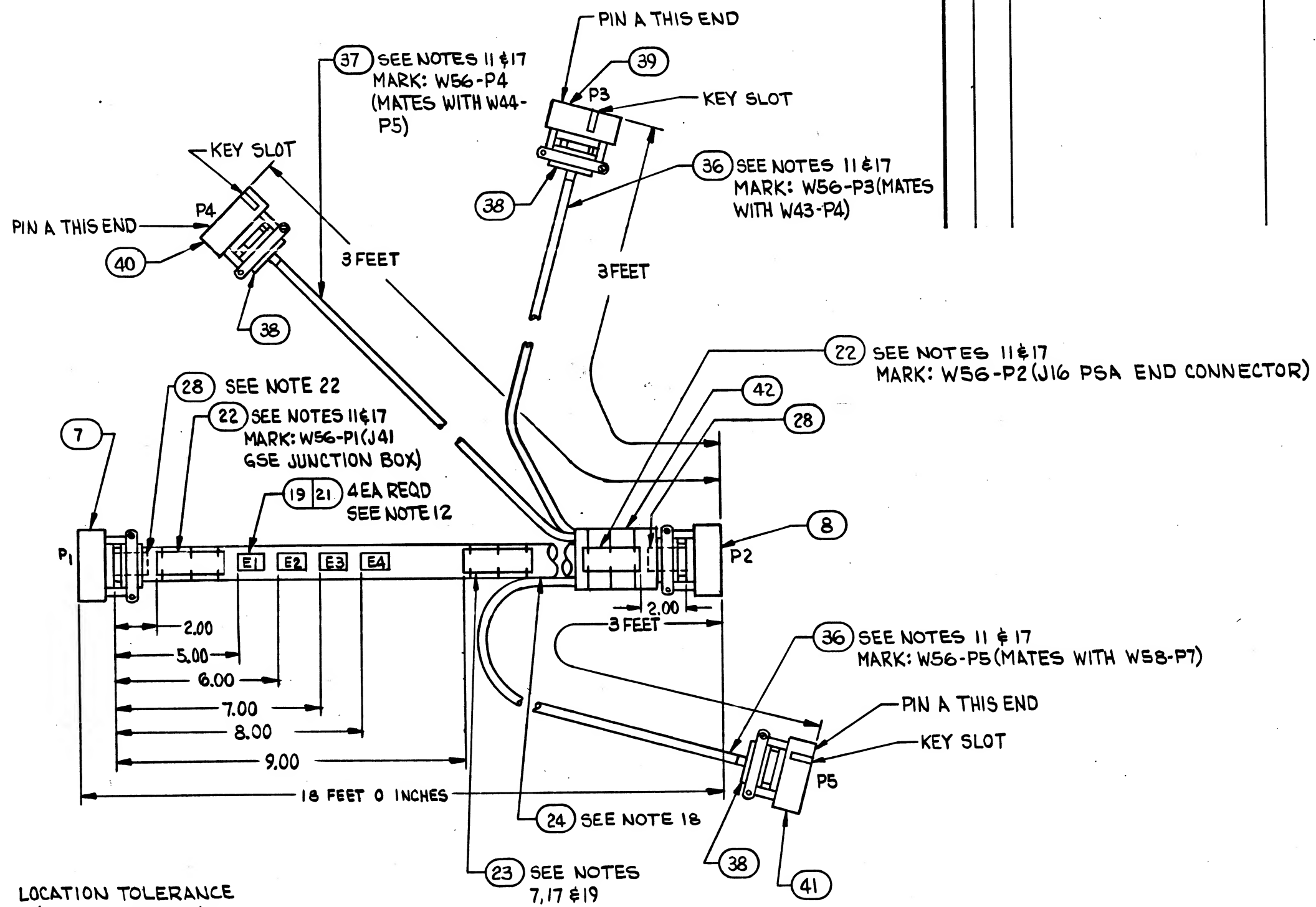
1

D

C

B

A



LOCATION TOLERANCE
(EXCEPT LENGTH):
±.50

| REVISIONS | | | | |
|-----------|------|---------------------|------|-------|
| SYM | ZONE | DESCRIPTION | DATE | APPD. |
| C | | ADDED PER TDR 15406 | | |
| | | CHG NO. | | |

| | | | | | |
|---|----------|---|-----------------------------------|---|----------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DRAWN KOSMATKA 25 OCT 63 | CABLE INTERCONNECT W56 OSS TESTING | |
| + | + | + | CHECKED M. MANNING 4 NOV 63 | | |
| - | - | - | APPROVAL N. ABRAHAM 5 NOV 63 | | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL J. M. Watson JAN 8 65 | | |
| MATERIAL | | NASA APPROVAL G. J. [Signature] | | CODE IDENT NO. | SIZE |
| NEXT ASSY | | MIT APPROVAL W. [Signature] | | C | 1900956 |
| APPLICATION | | CONTRACT NAS 9-497 | | SCALE NONE | SHEET 18 OF 18 |

[illegible]

| | | | |
|---------|---|---|---------------|
| GHR | CABLE W-56 | B | 1900956 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART | | |
| 2 | SEE CONDUCTOR CHART | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900956 |
| | | SCALE-NONE | SHEET 2 OF 18 |

| | | | |
|---------|---|---|---------------|
| GHR | CABLE W-56 | B | 1900956 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR LETTER L R - WHITE WITH RED TRACER OR LETTER R Y - WHITE WITH YELLOW TRACER OR LETTER Y W - WHITE | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 25. MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | |
| 19 | SERIALIZE PER ND1002023. | | |
| 20 | ITEM 26 FURNISHED WITH ITEM 7 | | |
| 21 | ITEM 27 FURNISHED WITH ITEM 8 | | |
| 22 | ITEM 28 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 28 AS REQUIRED TO FIT. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900956 |
| | | SCALE-NONE | SHEET 3 OF 18 |

| | | | |
|--|---------------|---|---------------|
| GHR | CABLE W-56 | B | 1900956 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | |
| OVER 6 FEET +2.00-.00 | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900956 |
| | | SCALE-NONE | SHEET 4 OF 18 |

| | | | |
|---------|--|---|---------------|
| GHR | CABLE W-56 | B | 1900956 |
| PENNANT | LIST OF MATERIALS | | |
| NOTE | ITEM QTY PART NO DESCRIPTION | | |
| 1 | 1 1900956-001 DELETED 1900956-001 | | |
| 2 | 1 1900956-002 WIRE ND1002181 TYPE 2 CLASS 4, WHT. JKT., 20AWG WHT/BLU, WHT/RED, 198 FT. TOTAL LENGTH | | |
| 3 | 1 1900956-003 WIRE ND1002181 TYPE 1 CLASS 4, WHT. JKT., 20AWG WHT., 48 FT. TOTAL LENGTH | | |
| 4 | 1 1900956-004 WIRE ND1002181 TYPE 1 CLASS 1, 20AWG, WHITE, 198 FT. TOTAL LENGTH | | |
| 5 | 1 1900956-005 WIRE ND1002181 TYPE 1 CLASS 1, 22AWG, WHITE, 12 FT. TOTAL LENGTH | | |
| 6 | 1 1900956-006 WIRE ND1002181 TYPE 2 CLASS 1, T2, 20AWG, WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY) 55 FT. TOTAL LENGTH | | |
| 16 | 7 1 MS3126F24-61P (1897047-610) CONNECTOR-PLUG | | |
| 16 | 8 1 MS3126F24-61S (1897048-610) CONNECTOR-PLUG | | |
| 10 | 9 2 1000243-004 FERRULE ELEC. COND. | | |
| 10 | 10 2 1000242-004 FERRULE ELEC. COND. | | |
| 10 | 11 11 1000243-011 FERRULE ELEC. COND. | | |
| 10 | 12 11 1000242-009 FERRULE ELEC. COND. | | |
| 13 | DELETED 1000243-013 | | |
| 14 | DELETED 1000242-016 | | |
| 10 | 15 10 1010490-198 INSULATION-SLEEVING, ELEC. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900956 |
| | | SCALE-NONE | SHEET 5 OF 18 |

| | | | | | | |
|---------|------|-------------------|-------------|--|-----------|---------------|
| GHR | | CABLE W-56 | | B | 1900956 | |
| PENMAN* | | LIST OF MATERIALS | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | |
| 10 | 16 | 10 | 1010490-200 | INSULATION-SLEEVEING ELEC. | | |
| 10 | 17 | 11 | 1010490-194 | INSULATION-SLEEVEING ELEC. | | |
| 10 | 18 | 11 | 1010490-196 | INSULATION-SLEEVEING ELEC. | | |
| 10 | 19 | 4 | 1010490-256 | INSULATION-SLEEVEING ELEC. | | |
| 10 | 20 | 6 | 1010490-188 | INSULATION-SLEEVEING ELEC. | | |
| 10 | 21 | 4 | 1016006-003 | SPLICE REDUCER | | |
| 10 | 22 | 2 | 1016128-041 | BAND-IDENTIFICATION | | |
| 10 | 23 | 1 | 1016128-011 | BAND-IDENTIFICATION | | |
| | 24 | 1 | 1900956-007 | ZIPPER TUBING MD1002155 TYPE 1, PLASTIC, FLEXIBLE 1.125 DIA. 18 FT. TOTAL LENGTH | | |
| | 25 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) | | |
| 20 | 26 | | | CONTACT PINS | | |
| 21 | 27 | | | CONTACT, SOCKETS | | |
| 22 | 28 | AR | 1897147-112 | -116 CABLE CLAMP SLEEVE | | |
| | 29 | 1 | 1900956-008 | WIRE COAXIAL MIL-L 17/69A 188A/U, 24 FT TOT. LG | | |
| | 30 | 8 | 1000243-006 | FERRULE ELECT. COND. | | |
| | 31 | 8 | 1000242-005 | FERRULE ELECT. COND. | | |
| | 32 | 8 | 1016369-188 | INNER MALE PIN | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| | | | | SCALE-NONE | REV LTR B | SHEET 6 OF 18 |

| | | | | | | | |
|---------|------|-------------------|-------------|---|--|---------|--|
| GHR | | CABLE W-56 | | D | | 1900956 | |
| PENMANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 33 | 8 | 1016369-488 | OUTER FEMALE BODY | | | |
| | 34 | 8 | 1016369-588 | WYRING | | | |
| | 35 | 4 | 1016369-421 | CONTACT SOCKETS | | | |
| | 36 | 2 | 1900956-009 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-007, 3 FEET TOTAL LENGTH | | | |
| | 37 | 1 | 1900956-010 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 3 FEET TOTAL LENGTH. | | | |
| | 38 | 3 | 1016369-141 | SOCKET BODY CONNECTOR | | | |
| | 39 | 1 | 1902170-004 | POLARIZING SHELL | | | |
| | 40 | 1 | 1902170-005 | POLARIZING SHELL | | | |
| | 41 | 1 | 1902170-003 | POLARIZING SHELL | | | |
| | 42 | 1 | 1900956-011 | ZIPPER TUBING MD 1002155, TYPE 1 PLASTIC FLEXIBLE, 2 IN. DIA., 5 IN. TOT. LENGTH | | | |

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|--|--|---------------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900956 | |
| SCALE-NONE | | REV LTR | D | SHEET 7 OF 18 |

| GMR | | CABLE W-56 | | | | | | | | | | B | | 1900956 | |
|---|----|------------|--|----------------------|--|---------------|-------------------|----------|----|----------------------|--|---------------|-------------------|----------|----|
| CONDUCTOR | | | | FROM | | | | | | TO | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | |
| A | 1 | 6 | | | | | | A | 20 | | | | | A | 20 |
| A | 1L | | | P1-C | | 22N | | 26 | | P2-C | | 22N | | 27 | |
| A | 1R | | | P1-B | | 22N | | 26 | | P2-B | | 22N | | 27 | |
| A | 2 | 6 | | | | | | A | 20 | | | | | A | 20 |
| A | 2L | | | P1-E | | 22N | | 26 | | P2-E | | 22N | | 27 | |
| A | 2R | | | P1-D | | 22N | | 26 | | P2-D | | 22N | | 27 | |
| A | 3 | 6 | | | | | | A | 20 | | | | | A | 20 |
| A | 3L | | | P1-G | | 22N | | 26 | | P2-G | | 22N | | 27 | |
| A | 3R | | | P1-F | | 22N | | 26 | | P2-F | | 22N | | 27 | |
| A | 4 | 4 | | P1-N | | 22N | | 26 | | P2-N | | 22N | | 27 | |
| A | 5 | 4 | | P1-P | | 22N | | 26 | | P2-P | | 22N | | 27 | |
| A | 6 | 4 | | P1-R | | 22N | | 26 | | P2-R | | 22N | | 27 | |
| A | 7 | | | DELETED | | | | | | | | | | | |
| A | 7A | | | DELETED | | | | | | | | | | | |
| A | 7L | | | DELETED | | | | | | | | | | | |
| A | 7R | | | DELETED | | | | | | | | | | | |
| A | 8 | | | DELETED | | | | | | | | | | | |
| A | 8A | | | DELETED | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SIZE | | 1900956 | | | |
| | | | | | | | | | | A | | | | | |
| | | | | | | | | | | SCALE-NONE | | | | | |
| | | | | | | | | | | SHEET | | 8 OF 18 | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|--|-----|------------|--|-----|-----|----------------------|----|---|---------------|--|--------------------|-----|-----------|----------------------|---------|--|---------------|--|----------|--|--|
| GHR | | CABLE W-56 | | | | | | | | | | B | | 1900956 | | | | | | | |
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | | | | |
| NUMBER | | | ITEM NO. | | | STRIP WIRE OR JACKET | | | CIRCUIT POINT | | ITEM NO. | | | STRIP WIRE OR JACKET | | | CIRCUIT POINT | | ITEM NO. | | |
| A | 8M | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 9 | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 9A | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 9L | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 9R | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 10 | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 10A | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 10L | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 10R | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 11 | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 11A | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 11W | | DELETED | | | | | | | | | | | | | | | | | | |
| A | 12 | 4 | P1-B* | 22N | 26 | | | | | | P2-B* | 22N | 27 | | | | | | | | |
| A | 13 | 2 | | 280 | 250 | 11 | 12 | 5 | | | | 280 | 250 | A 18 | 7A | | | | | | |
| | | | | | | A 17 | | | | | | | | | | | | | | | |
| A | 13A | 5 | SHLD A13 | 22N | | | | | | | E2 | 37N | | | | | | | | | |
| A | 13L | | P1-D* | 22N | 26 | | | | | | P2-D* | 22N | 27 | | | | | | | | |
| A | 13R | | P1-C* | 22N | 26 | | | | | | P2-C* | 22N | 27 | | | | | | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | 1900956 | | | | | | |
| ▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | SCALE - NONE | | | | | | | | | | REV LTR | | B | | SHEET 9 OF 18 | | | | |
| ▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | | |

| GHR CABLE W-56 B 1900956 | | | | | | | | | |
|---|-----|----------------------|-----------------|-------------------|-----|--|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| ITEM NO. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 14 | 2 | | 280 250 11 12 5 | | | | 280 250 | A 18 | 7A |
| | | | | | | | | | |
| A 14A | 5 | SHLD A14 | 22N | | | E2 | 37N | | |
| A 14L | | P1-F* | 22N 26 | | | P2-F* | 22N 27 | | |
| A 14R | | P1-E* | 22N 26 | | | P2-E* | 22N 27 | | |
| A 15 | 2 | | 280 250 11 12 5 | | | | 280 250 | A 18 | 7A |
| | | | | | | | | | |
| A 15A | 5 | SHLD A15 | 22N | | | E2 | 37N | | |
| A 15L | | P1-H* | 22N 26 | | | P2-H* | 22N 27 | | |
| A 15R | | P1-G* | 22N 26 | | | P2-G* | 22N 27 | | |
| A 16 | 2 | | 280 250 11 12 5 | | | | 280 250 | A 18 | 7A |
| | | | | | | | | | |
| A 16A | 5 | SHLD A16 | 22N | | | E2 | 37N | | |
| A 16L | | P1-J* | 22N 26 | | | P2-J* | 22N 27 | | |
| A 16R | | P1-I* | 22N 26 | | | P2-I* | 22N 27 | | |
| A 17 | | DELETED | | | | | | | |
| A 17A | | DELETED | | | | | | | |
| A 17L | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 | |
| | | | | | | SCALE-NONE | REV LTR B | SHEET 10 OF 18 | |

| GHR CABLE W-56 B 1900956 | | | | | | | | | |
|---|-----|-----------------------|-----------------|-------------------|-----|--|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| ITEM NO. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 17R | | DELETED | | | | | | | |
| A 18 | 2 | | 350 300 11 12 5 | | | | 350 300 | A 18 | 7A |
| | | | | | | | | | |
| A 18A | 5 | SHLD A18 | 22N | | | E2 | 37N | | |
| A 18L | | P1-P* | 22N 26 | | | P2-P* | 22N 27 | | |
| A 18R | | P1-N* | 22N 26 | | | P2-N* | 22N 27 | | |
| A 19 | | DELETED | | | | | | | |
| A 19A | | DELETED | | | | | | | |
| A 19L | | DELETED | | | | | | | |
| A 19R | | DELETED | | | | | | | |
| A 20 | 2 | | 350 300 11 12 5 | | | | 350 300 | A 18 | 7A |
| | | | | | | | | | |
| A 20A | 5 | SHLD A20 | 22N | | | E3 | 37N | | |
| A 20L | | P1-T* | 22N 26 | | | P2-T* | 22N 27 | | |
| A 20R | | P1-S* | 22N 26 | | | P2-S* | 22N 27 | | |
| A 21 | | DELETED | | | | | | | |
| A 22 | 4 | SHLD P2-V* | 22N 26 | | | P1-V* | 22N 26 | | |
| A 23 | 4 | SHLD P2-W* | 22N 26 | | | P1-W* | 22N 26 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 | |
| | | | | | | SCALE-NONE | REV LTR B | SHEET 11 OF 18 | |

| GHR CABLE W-56 B 1900956 | | | | | | | | | |
|---|-----|----------------------|-----------------|-------------------|-----|--|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| ITEM NO. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 24 | 3 | | 380 350 9 10 5 | | | | 380 350 | A 16 | 7A |
| | | | | | | | | | |
| A 24A | 5 | SHLD A24 | 22 | | | E3 | 37N | | |
| A 24W | | P1-X* | 22 26 | | | P2-X* | 22N 27 | | |
| A 25 | 2 | | 380 350 11 12 5 | | | | 380 350 | A 18 | 7A |
| | | | | | | | | | |
| A 25A | 5 | SHLD A25 | 22N | | | E3 | 37N | | |
| A 25L | | P1-Z* | 22N 26 | | | P2-Z* | 22N 27 | | |
| A 25R | | P1-Y* | 22N 26 | | | P2-Y* | 22N 27 | | |
| A 26 | | DELETED | | | | | | | |
| A 26A | | DELETED | | | | | | | |
| A 26L | | DELETED | | | | | | | |
| A 26R | | DELETED | | | | | | | |
| A 27 | | DELETED | | | | | | | |
| A 27A | | DELETED | | | | | | | |
| A 27L | | DELETED | | | | | | | |
| A 27R | | DELETED | | | | | | | |
| A 28 | 2 | | 430 400 11 12 | | | | 430 400 | A 18 | 7A |
| | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 | |
| | | | | | | SCALE-NONE | REV LTR B | SHEET 12 OF 18 | |

| GHR CABLE W-56 B 1900956 | | | | | | | | | |
|---|-----|----------------------|-----------------|-------------------|-----|--|---------------|-------------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| ITEM NO. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 28A | 5 | SHLD A28 | | | | E3 | 37N | | |
| A 28L | | P1-GG | 26 | | | P2-GG | 22N 27 | | |
| A 28R | | P1-FF | 26 | | | P2-FF | 22N 27 | | |
| A 29 | 3 | | 430 400 9 10 5 | | | | 430 400 | A 16 | 7A |
| | | | | | | | | | |
| A 29A | 5 | SHLD A29 | 22N | | | E4 | 37N | | |
| A 29W | | P1-HH | 22N 26 | | | P2-HH | 22N 27 | | |
| A 30 | 4 | P1-AA* | 22N 26 | | | P2-AA* | 22N 27 | | |
| A 31 | | DELETED | | | | | | | |
| A 32 | 2 | | 430 400 11 12 5 | | | | 430 400 | A 18 | 7A |
| | | | | | | | | | |
| A 32A | 5 | SHLD A32 | 22N | | | E4 | 37N | | |
| A 32L | | P1-KK | 22N 26 | | | P2-KK | 22N 27 | | |
| A 32R | | P1-JJ | 22N 26 | | | P2-JJ | 22N 27 | | |
| A 33 | 2 | | 430 400 11 12 5 | | | | 430 400 | A 18 | 7A |
| | | | | | | | | | |
| A 33A | 5 | SHLD A33 | | | | E4 | 37N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 | |
| | | | | | | SCALE-NONE | REV LTR B | SHEET 13 OF 18 | |

GHR CABLE W-56 B 1900956

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|-----|----------|---|----------------------|-----|-------------------|-------|----------------------|-----|-------------------|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| | | | | ITEM NO. | | | | ITEM NO. | | | |
| A | 33L | | | P1-NN | | 26 | | P2-NN | 22N | 27 | |
| A | 33R | | | P1-LL | | 26 | | P2-LL | 22N | 27 | |
| A | 34 | 2 | | | 480 | 450 | 11 12 | | 480 | 450 | A 18 7A |
| | | | | | | A 17 | | | | | |
| A | 34A | 5 | | SHLD A34 | 22N | | | E4 | 22N | | |
| A | 34L | | | P1-AA | 22N | 26 | | P2-AA | 22N | 27 | |
| A | 34R | | | P1-NN | 22N | 26 | | P2-NN | 22N | 27 | |
| A | 35 | | | DELETED | | | | | | | |
| A | 35A | | | DELETED | | | | | | | |
| A | 35L | | | DELETED | | | | | | | |
| A | 35R | | | DELETED | | | | | | | |
| A | 35Y | | | DELETED | | | | | | | |
| A | 36 | 4 | | P1-H | 22N | 26 | | E1 | 22N | | |
| A | 37 | 4 | | E1 | 22N | | | E2 | 22N | | |
| A | 38 | 4 | | E2 | 22N | | | E3 | 22N | | |
| A | 39 | 4 | | E3 | 22N | | | E4 | 22N | | |
| A | 40 | 29 | | | 290 | 200 | 30 31 | 5 | 56 | A 16 | |
| | | | | | | A 15 | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900956

SCALE - NONE

REV LTR 8

SHEET 14 OF 1

GHR CABLE W-56 0 1900956

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|---|----------------------|------|-----|-------------|----------|-----|----------------------|-----|----|-------------|----------|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | 2 | 1 | SPEC. | 1 | NO. | STRIP WIRE OR JACKET | 2 | 1 | SPEC. | 1 | NO. |
| | | | CIRCUIT POINT | 2 | 1 | | ITEM NO. | | CIRCUIT POINT | 2 | 1 | | ITEM NO. | |
| A 40A | 5 | | SHLD A40 | 37N | | | | | P2-M* | 22N | | | 27 | |
| A 40B | | | SHLD A40 | | | | | | P3-B SHLD | N | 25 | 33 | 34 | |
| A 40M | | | P2-K* | 22N | | 27 | | | P3-B | 18 | | 32 | | |
| A 41 | 29 | | | 230 | 200 | 30 | 31 | 5 | | 56 | | A | 1 | 6 |
| | | | | | | | A 15 | | | | | | | |
| A 41A | 5 | | SHLD A41 | 37N | | | | | P2-T | 22N | | 27 | | |
| A 41B | | | SHLD A41 | | | | | | P3-E SHLD | N | 25 | 33 | 34 | |
| A 41M | | | P2-U | 22N | | 27 | | | P3-E | 18 | | 32 | | |
| A 42 | 4 | | P2-S | 22N | | 27 | | | P3-F | 22N | | 35 | | |
| A 43 | 29 | | | 230 | 200 | 30 | 31 | 5 | | 56 | | A | 1 | 6 |
| | | | | | | | A 15 | | | | | | | |
| A 43A | 5 | | SHLD A43 | 37N | | | | | P2-W | 22N | | 27 | | |
| A 43B | | | SHLD A43 | | | | | | P3-J SHLD | N | 25 | 33 | 34 | |
| A 43M | | | P2-V | 22N | | 27 | | | P3-J | 18 | | 32 | | |
| A 44 | 29 | | | 230 | 200 | 30 | 31 | 5 | | 56 | | A | 1 | 6 |
| | | | | | | | A 15 | | | | | | | |
| A 44A | 5 | | SHLD A44 | 37N | | | | | P2-Y | 22N | | 27 | | |
| A 44B | | | SHLD A44 | | | | | | P3-M SHLD | N | 25 | 33 | 34 | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

SCALE- NONE

REV LTR
B

1900956

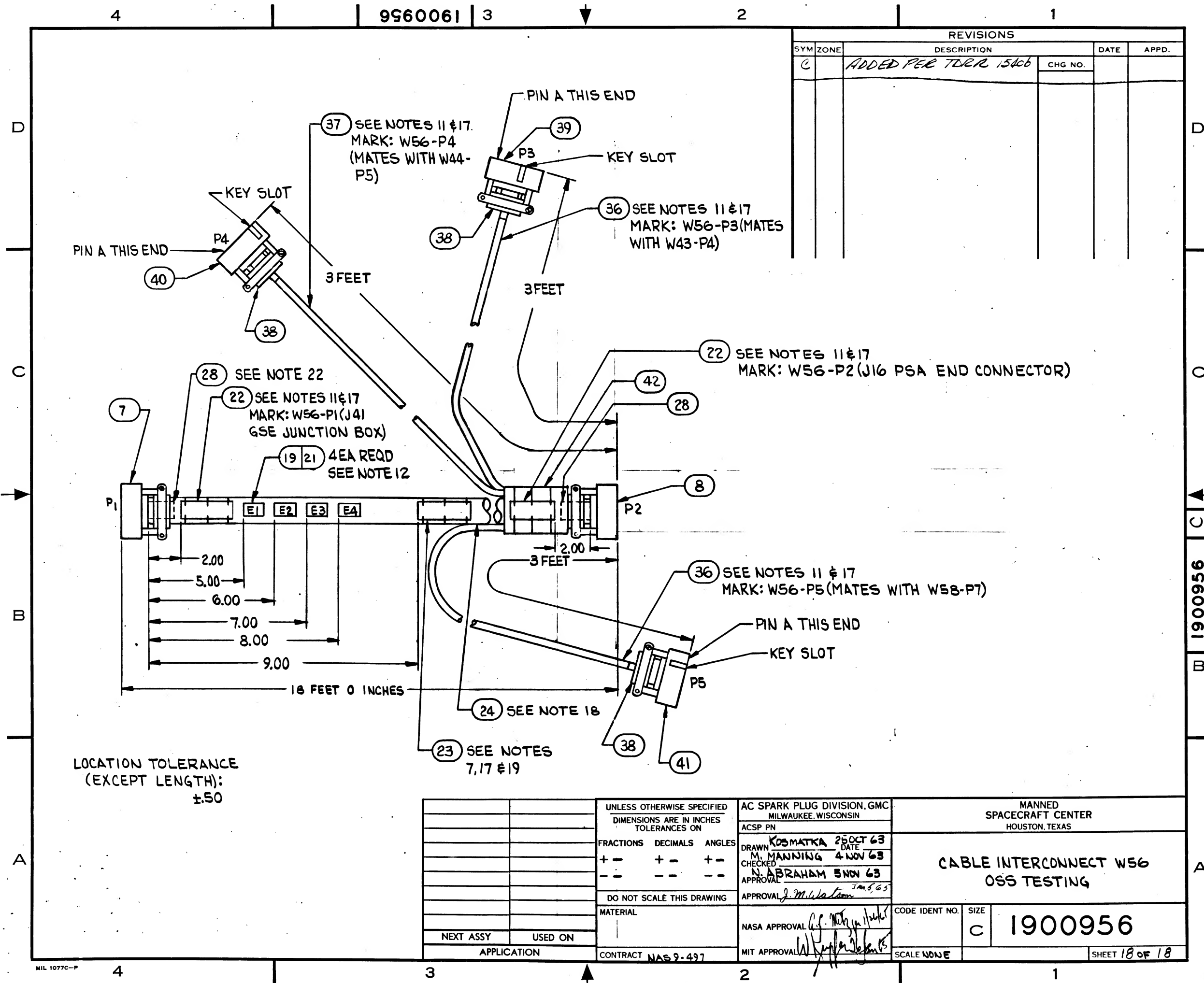
SHEET 15 OF 6

GHR CABLE W-56 8 1900956

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|---|----|--|--|----------------------|-----|-----|----|----------------------|--|-----|-----------|----|----------------|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OF SHIELD | | | | | | |
| ITEM NO. 1 | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | | TERMINATION SPEC. 1 | | | | TERMINATION SPEC. 1 | | | | | | |
| ITEM NO. 2 | | | | ITEM NO. 3 | | | | ITEM NO. 4 | | | | | | |
| A 44W | | | | P2-X | 22N | 27 | | | P3-M | 18 | 32 | | | |
| A 45 | | | | P2-Z | 22N | 27 | | | P3-D | 22N | 35 | | | |
| A 46 | 29 | | | | 330 | 300 | 30 | 31 | 5 | 56 | A 16 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A 46A | 5 | | | SHLD A46 | 37N | | | | P2-EE | 22N | 27 | | | |
| A 46B | | | | SHLD A46 | | | | | P4-E SHLD | N | 25 | 33 | 34 | |
| A 46W | | | | P2-DD | 22N | 27 | | | P4-E | 18 | 32 | | | |
| A 47 | 29 | | | | 330 | 300 | 30 | 31 | 5 | 56 | A 16 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A 47A | 5 | | | SHLD A47 | 37N | | | 5 | P2-CC | 22N | 27 | | | |
| A 47B | | | | SHLD A47 | | | | | P4-J SHLD | N | 25 | 33 | 34 | |
| A 47W | | | | P2-BB | 22N | 27 | | | P4-J | 18 | 32 | | | |
| A 48 | 29 | | | | 330 | 300 | 30 | 31 | 5 | 56 | A 16 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A 48A | 5 | | | SHLD A48 | 37N | | | | P2-K | 22N | 27 | | | |
| A 48B | | | | SHLD A48 | | | | | P5-J SHLD | N | 25 | 33 | 34 | |
| A 48W | | | | P2-J | 22N | 27 | | | P5-J | 18 | 32 | | | |
| A 49 | 29 | | | | 330 | 300 | 30 | 31 | 5 | 56 | A 16 | | | |
| | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900956 | |
| | | | | | | | | | SCALE - NONE | | REV LTR 8 | | SHEET 16 OF 16 | |

GHR CABLE W-56 8 1900956

[illegible]



- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
.12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | | |
|---|---------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900956 | |
| SCALE - NONE | REV LTR | + | SHEET 2 of 15 |

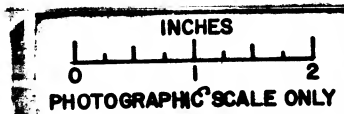
- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
 - A - FROM END SHIELD
 - L - WHITE WITH BLUE TRACER OR LETTER L
 - R - WHITE WITH RED TRACER OR LETTER R
 - Y - WHITE WITH YELLOW TRACER OR LETTER Y
 - W - WHITE
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 25. MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.

| | | | |
|---|---------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900956 | |
| SCALE - NONE | REV LTR | + | SHEET 3 of 15 |

[illegible]

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|----------|----------|----------|----------|
| | WIRE OR CABLE | STRIP | | CUT | |
| | | WIRE | JACKET | WIRE | SHIELD |
| UNDER 1 INCH | + .06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
|--|---------|-----------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900956 |
| | A | |
| SCALE - NONE | REV LTR | + SHEET 4 of 15 |



| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 16 | 4 | 1010490-200 | INSULATION-SLEEVEING ELEC |
| 10 | 17 | 19 | 1010490-194 | INSULATION-SLEEVEING ELEC |
| 10 | 18 | 19 | 1010490-196 | INSULATION-SLEEVEING ELEC |
| 10 | 19 | 4 | 1010490-256 | INSULATION-SLEEVEING ELEC |
| 10 | 20 | 6 | 1010490-188 | INSULATION-SLEEVEING ELEC |
| 10 | 21 | 4 | 1016006-003 | SPLICE REDUCER |
| 10 | 22 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 23 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| | 24 | 1 | 1900956-007 | ZIPPER TUBING ND 1002155 TYPE I, PLASTIC, FLEXIBLE 1.00 DIA 18 FT TOTAL LENGTH |
| | 25 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR + | SHEET 6 of 15 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|---------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900956-001 | WIRE ND 1002181 TYPE 3, CLASS 4, WHT JACKET, 20 AWG, WHT/BLU, WHT/RED, WHT/YEL 18 FT TOT. LENGTH |
| | 2 | 1 | 1900956-002 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JACKET, 20 AWG, WHT/BLU, WHT/RED, 324 FT TOTAL LENGTH |
| | 3 | 1 | 1900956-003 | WIRE ND 1002181 TYPE 1, CLASS 4 WHT JACKET, 20 AWG, WHT, 72 FT TOTAL LENGTH |
| | 4 | 1 | 1900956-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG, WHITE, 198 FT TOTAL LENGTH |
| | 5 | 1 | 1900956-005 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG, WHITE, 12 FT TOTAL LENGTH |
| | 6 | 1 | 1900956-006 | WIRE ND 1002181 TYPE 2, CLASS 1, T2, 20 AWG, WHITE (CONDUCTORS MARKED R & L RESPECTIVELY) 55 FT TOTAL LENGTH |
| 16 | 7 | 1 | MS3126F24-61P | (1897047-610) CONNECTOR-PLUG |
| 16 | 8 | 1 | MS3126F24-61S | (1897048-610) CONNECTOR-PLUG |
| 10 | 9 | 4 | 1000243-004 | FERRULE ELEC COND. |
| 10 | 10 | 4 | 1000242-004 | FERRULE ELEC COND. |
| 10 | 11 | 18 | 1000243-014 | FERRULE ELEC COND. |
| 10 | 12 | 18 | 1000242-012 | FERRULE ELEC COND. |
| 10 | 13 | 1 | 1000243-015 | FERRULE ELEC COND. |
| 10 | 14 | 1 | 1000242-016 | FERRULE ELEC COND. |
| 10 | 15 | 4 | 1010490-198 | INSULATION-SLEEVEING, ELEC |

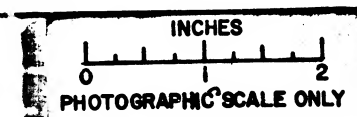
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR + | SHEET 5 of 15 |

| CABLE W 56 | | | | | | | | | | | | | | |
|-------------------|----------|----------------------|---------------|-------------------|---------|----------------------|--------------------|----------|-------------------|----------------------|---------------|----------|-----|--|
| CONDUCTOR | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | |
| A 1 | 6 | | | A 20 | | | | A 20 | | | | | | |
| A 1L | | P1-C | 22N | | | P2-C | 22N | | | | | | | |
| A 1R | | P1-B | 22N | | | P2-B | 22N | | | | | | | |
| A 2 | 6 | | | A 20 | | | | A 20 | | | | | | |
| A 2L | | P1-E | 22N | | | P2-E | 22N | | | | | | | |
| A 2R | | P1-D | 22N | | | P2-D | 22N | | | | | | | |
| A 3 | 6 | | | A 20 | | | | A 20 | | | | | | |
| A 3L | | P1-G | 22N | | | P2-G | 22N | | | | | | | |
| A 3R | | P1-F | 22N | | | P2-F | 22N | | | | | | | |
| A 4 | 4 | P1-N | 22N | | | P2-N | 22N | | | | | | | |
| A 5 | 4 | P1-P | 22N | | | P2-P | 22N | | | | | | | |
| A 6 | 4 | P1-R | 22N | | | P2-R | 22N | | | | | | | |
| A 7 | 2 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 18 | 7A | | | | |
| | | | | A 17 | | | | | | | | | | |
| A 7A | 5 | SHLD A7 | 22N | | | E1 | 37N | | | | | | | |
| A 7L | | P1-T | 22N | | | P2-T | 22N | | | | | | | |
| A 7R | | P1-U | 22N | | | P2-U | 22N | | | | | | | |
| A 8 | 3 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 16 | 7A | | | | |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR + | SHEET 7 OF 15 |

| CABLE W 56 | | | | | | | | | | | | | | |
|-------------------|----------|----------------------|---------------|-------------------|---------|----------------------|--------------------|----------|-------------------|----------------------|---------------|----------|-----|--|
| CONDUCTOR | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | |
| | | | | A 15 | | | | | | | | | | |
| A 8A | 5 | SHLD A8 | 22N | | | E1 | 37N | | | | | | | |
| A 8W | | P1-S | 22N | | | P2-S | 22N | | | | | | | |
| A 9 | 2 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 18 | 7A | | | | |
| | | | | A 17 | | | | | | | | | | |
| A 9A | 5 | SHLD A9 | 22N | | | E1 | 37N | | | | | | | |
| A 9L | | P1-W | 22N | | | P2-W | 22N | | | | | | | |
| A 9R | | P1-V | 22N | | | P2-V | 22N | | | | | | | |
| A 10 | 2 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 18 | 7A | | | | |
| | | | | A 17 | | | | | | | | | | |
| A 10A | 5 | SHLD A10 | 22N | | | E1 | 37N | | | | | | | |
| A 10L | | P1-Y | 22N | | | P2-Y | 37N | | | | | | | |
| A 10R | | P1-X | 22N | | | P2-X | 37N | | | | | | | |
| A 11 | 3 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 16 | 7A | | | | |
| | | | | A 15 | | | | | | | | | | |
| A 11A | 5 | SHLD A11 | 22N | | | E1 | 37N | | | | | | | |
| A 11W | | P1-Z | 22N | | | P2-Z | 22N | | | | | | | |
| A 12 | 4 | P1-B* | 22N | | | P2-B* | 22N | | | | | | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900956 |
| SCALE-NONE | REV LTR + | SHEET 8 OF 15 |



GHR CABLE W 56 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 16L | | P1-J* | 22N | | | P2-J* | 22N | | |
| A 16R | | P1-I* | 22N | | | P2-I* | 22N | | |
| A 17 | 2 | | 330 300 11 12 | 5 | | | 330 300 A 18 | 7A | |
| | | | | | | | | | |
| A 17A | 5 | SHLD A17 | 22N | | | E2 | 37N | | |
| A 17L | | P1-M* | 22N | | | P2-M* | 22N | | |
| A 17R | | P1-K* | 22N | | | P2-K* | 22N | | |
| A 18 | 2 | | 330 300 11 12 | 5 | | | 330 300 A 18 | 7A | |
| | | | | | | | | | |
| A 18A | 5 | SHLD A18 | 22N | | | E2 | 37N | | |
| A 18L | | P1-P* | 22N | | | P2-P* | 22N | | |
| A 18R | | P1-N* | 22N | | | P2-N* | 22N | | |
| A 19 | 2 | | 330 300 11 12 | 5 | | | 330 300 A 18 | 7A | |
| | | | | | | | | | |
| A 19A | 5 | SHLD A19 | 22N | | | E2 | 37N | | |
| A 19L | | P1-R* | 22N | | | P2-R* | 22N | | |
| A 19R | | P1-Q* | 22N | | | P2-Q* | 22N | | |
| A 20 | 2 | | 330 300 11 12 | 5 | | | 330 300 A 18 | 7A | |
| | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR + SHEET 10 OF 15

GHR CABLE W 56 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 20A | 5 | SHLD A20 | 22N | | | E3 | 37N | | |
| A 20L | | P1-T* | 22N | | | P2-T* | 22N | | |
| A 20R | | P1-S* | 22N | | | P2-S* | 22N | | |
| A 21 | 4 | P1-U* | 22N | | | P1-U* | 22N | | |
| A 22 | 4 | P1-V* | 22N | | | P1-V* | 22N | | |
| A 23 | 4 | P1-W* | 22N | | | P1-W* | 22N | | |
| A 24 | 3 | | 380 350 9 10 | 5 | | | 380 350 A 16 | 7A | |
| | | | | | | | | | |
| A 24A | 5 | SHLD A24 | 22 | | | E3 | 37N | | |
| A 24W | | P1-X* | 22 | | | P2-X* | 22N | | |
| A 25 | 2 | | 380 350 11 12 | 5 | | | 380 350 A 18 | 7A | |
| | | | | | | | | | |
| A 25A | 5 | SHLD A25 | 22N | | | E3 | 37N | | |
| A 25L | | P1-Z* | 22N | | | P2-Z* | 22N | | |
| A 25R | | P1-Y* | 22N | | | P2-Y* | 22N | | |
| A 26 | 2 | | 380 350 11 12 | 5 | | | 380 350 A 18 | 7A | |
| | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR + SHEET 11 OF 15

GHR CABLE W 56 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13 | 2 | | 280 250 11 12 | 5 | | | 280 250 A 18 | 7A | |
| | | | | | | | | | |
| A 13A | 5 | SHLD A13 | 22N | | | E2 | 37N | | |
| A 13L | | P1-D* | 22N | | | P2-D* | 22N | | |
| A 13R | | P1-C* | 22N | | | P2-C* | 22N | | |
| A 14 | 2 | | 280 250 11 12 | 5 | | | 280 250 A 18 | 7A | |
| | | | | | | | | | |
| A 14A | 5 | SHLD A14 | 22N | | | E2 | 37N | | |
| A 14L | | P1-F* | 22N | | | P2-F* | 22N | | |
| A 14R | | P1-E* | 22N | | | P2-E* | 22N | | |
| A 15 | 2 | | 280 250 11 12 | 5 | | | 280 250 A 18 | 7A | |
| | | | | | | | | | |
| A 15A | 5 | SHLD A15 | 22N | | | E2 | 37N | | |
| A 15L | | P1-H* | 22N | | | P2-H* | 22N | | |
| A 15R | | P1-G* | 22N | | | P2-G* | 22N | | |
| A 16 | 2 | | 280 250 11 12 | 5 | | | 280 250 A 18 | 7A | |
| | | | | | | | | | |
| A 16A | 5 | SHLD A16 | 22N | | | E2 | 37N | | |
| | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

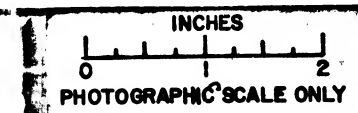
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR + SHEET 9 OF 15

GHR CABLE W 56 1900956

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 31 | 4 | P1-J | 22N | | | P2-J | 22N | | |
| A 32 | 2 | | 430 400 11 12 | 5 | | | 430 400 A 18 | 7A | |
| | | | | | | | | | |
| A 32A | 5 | SHLD A32 | 22N | | | E4 | 37N | | |
| A 32L | | P1-KK | 22N | | | P2-KK | 22N | | |
| A 32R | | P1-JJ | 22N | | | P2-JJ | 22N | | |
| A 33 | 2 | | 430 400 11 12 | 5 | | | 430 400 A 18 | 7A | |
| | | | | | | | | | |
| A 33A | 5 | SHLD A33 | 22N | | | E4 | 37N | | |
| A 33L | | P1-MM | 22N | | | P2-MM | 22N | | |
| A 33R | | P1-LL | 22N | | | P2-LL | 22N | | |
| A 34 | 2 | | 480 450 11 12 | | | | 480 450 A 18 | 7A | |
| | | | | | | | | | |
| A 34A | 5 | SHLD A34 | 22N | | | E4 | 22N | | |
| A 34L | | P1-NN | 22N | | | P2-NN | 22N | | |
| A 34R | | P1-NN | 22N | | | P2-NN | 22N | | |
| A 35 | 1 | | 480 450 13 14 | 5 | | | 480 450 A 18 | 7A | |
| | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE - NONE REV LTR + SHEET 13 OF 15



GHR

CABLE W 56

1900956

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | TO | |
|--|---|--------------------------|---|--------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. |
| A 26A 5 | SHLD A26 22N | | E3 37N | |
| A 26L | P1-CC 22N | | P2-CC 22N | |
| A 26R | P1-BB 22N | | P2-BB 22N | |
| A 27 2 | | 360 350 11 12 5 | 360 350 A 18 7A | |
| | | A 17 | | |
| A 27A 5 | SHLD A27 22N | | E3 37N | |
| A 27L | P1-EE 22N | | P2-EE 22N | |
| A 27R | P1-DD 22N | | P2-DD 22N | |
| A 28 2 | | 430 400 11 12 | 430 400 A 18 7A | |
| | | A 17 | | |
| A 28A 5 | SHLD A28 22N | | E3 37N | |
| A 28L | P1-GG 22N | | P2-GG 22N | |
| A 28R | P1-FF 22N | | P2-FF 22N | |
| A 29 3 | | 430 400 9 10 5 | 430 400 A 16 7A | |
| | | A 15 | | |
| A 29A 5 | SHLD A29 22N | | E4 37N | |
| A 29L | P1-HH 22N | | P2-HH 22N | |
| A 30 4 | P1-AA 22N | | P2-AA 22N | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MIL 208 7-243 WIR

MANUFACTURED
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CENTER
HOUSTON, TEXAS

SCALE: NONE REV LTR +

1900956

SHEET 12 OF 15

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CABLE W 56

1900956

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | TO | |
|--|---|--------------------------|---|--------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. |
| A 35A 5 | SHLD A35 22N | | E4 37N | |
| A 35L | P1-L 22N | | P2-L 22N | |
| A 35R | P1-K 22N | | P2-K 22N | |
| A 35Y | P1-M 22N | | P2-M 22N | |
| A 36 4 | P1-H 22N | | E1 22N | |
| A 37 4 | E1 22N | | E2 22N | |
| A 38 4 | E2 22N | | E3 22N | |
| A 39 4 | E3 22N | | E4 22N | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 208 7-243 WIR

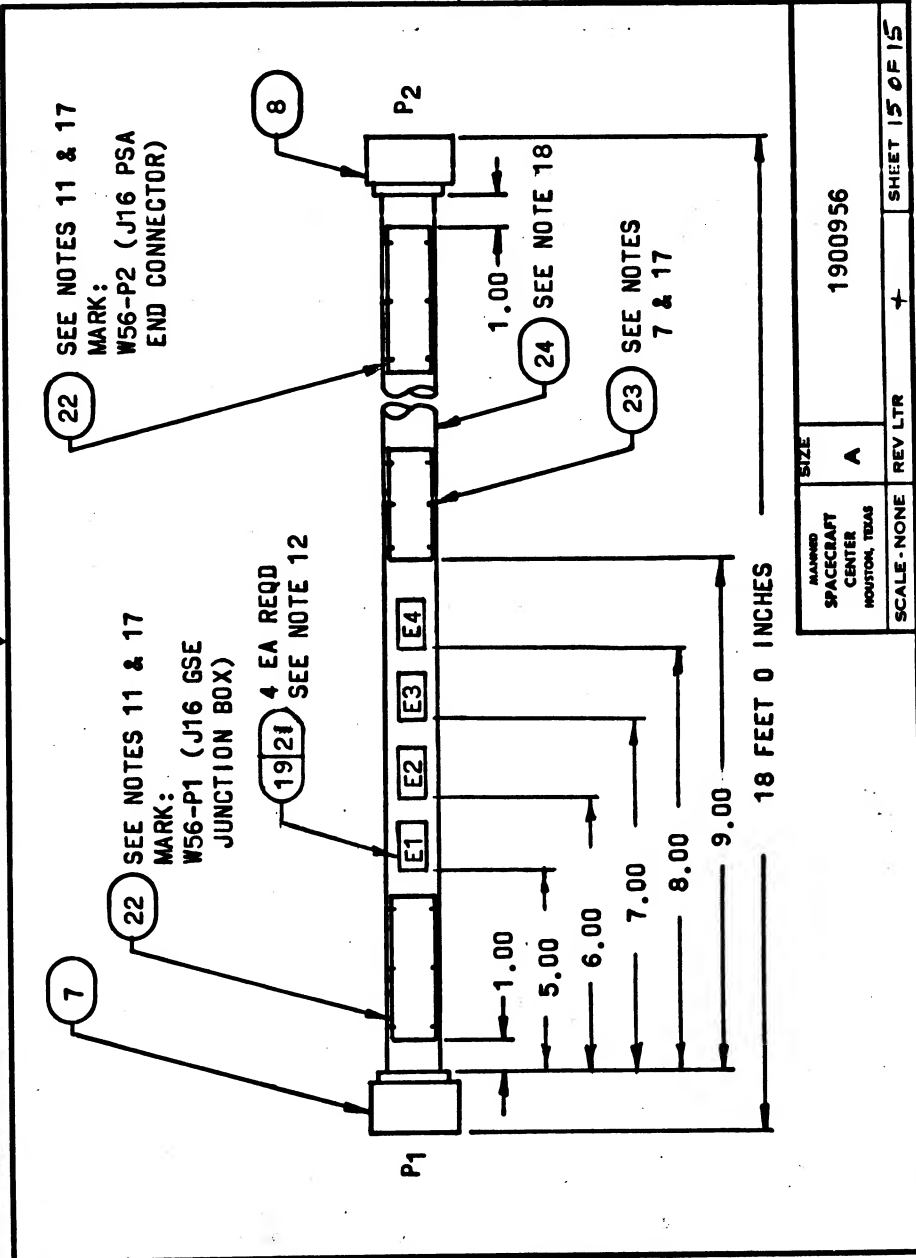
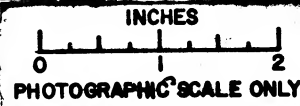
MIL 208 7-243 WIR

MANUFACTURED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE: NONE REV LTR +

1900956

SHEET 14 OF 15



| CABLE W 57 | | | | | | | | | |
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| GHE | | | | | | | | | |
| A 1900958 | | | | | | | | | |
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 8A | 4 | SHLD A8 | 25M | A 15 | | E2 | 25M | | |
| A 8L | | P1-Z* | 19M 25 | | | P2-Z* | 19M 24 | | |
| A 8R | | P1-Y* | 19M 25 | | | P2-Y* | 19M 24 | | |
| A 9 | 1 | | 330 300 8 9 5 | | | | 330 300 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 9A | 4 | SHLD A9 | 25M | | | E2 | 25M | | |
| A 9L | | P1-BB | 19M 25 | | | P2-BB | 19M 24 | | |
| A 9R | | P1-AA | 19M 25 | | | P2-AA | 19M 24 | | |
| A 10 | 1 | | 330 300 8 9 5 | | | | 330 300 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 10A | 4 | SHLD A10 | 25M | | | E2 | 25M | | |
| A 10L | | P1-DD | 19M 25 | | | P2-DD | 19M 24 | | |
| A 10R | | P1-CC | 19M 25 | | | P2-CC | 19M 24 | | |
| A 11 | 1 | | 330 300 8 9 5 | | | | 330 300 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 11A | 4 | SHLD A11 | 25M | | | E2 | 25M | | |
| A 11L | | P1-FF | 19M 25 | | | P2-FF | 19M 24 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR A SHEET 9 OF 14 | | | | |

| CABLE W 57 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------------|---|----------------------|-----------------|-------------------|-----|
| GHE | | | | | | | | | |
| A 1900958 | | | | | | | | | |
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 11R | | P1-EE | 19M 25 | | | P2-EE | 19M 24 | | |
| A 12 | 1 | | 380 350 8 9 5 | | | | 380 350 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 12A | 4 | SHLD A12 | 25M | | | E2 | 25M | | |
| A 12L | | P1-HH | 19M 25 | | | P2-HH | 19M 24 | | |
| A 12R | | P1-GG | 19M 25 | | | P2-GG | 19M 24 | | |
| A 13 | 1 | | 380 350 8 9 5 | | | | 380 350 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 13A | 4 | SHLD A13 | 25M | | | E2 | 25M | | |
| A 13L | | P1-G* | 19M 25 | | | P2-G* | 19M 24 | | |
| A 13R | | P1-F* | 19M 25 | | | P2-F* | 19M 24 | | |
| A 14 | 1 | | 380 350 8 9 5 | | | | 380 350 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 14A | 4 | SHLD A14 | 25M | | | E2 | 25M | | |
| A 14L | | P1-Z | 19M 25 | | | P2-Z | 19M 24 | | |
| A 14R | | P1-Y | 19M 25 | | | P2-Y | 19M 24 | | |
| A 15 | 1 | | 380 350 8 9 5 | | | | 380 350 A 14 7A | | |
| | | | | A 15 | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR A SHEET 10 OF 14 | | | | |

| CABLE W 57 | | | | | | | | | |
|--|----------|----------------------|---------------|-------------------|---|----------------------|-----------------|-------------------|-----|
| GHE | | | | | | | | | |
| A 1900958 | | | | | | | | | |
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 15A | 4 | SHLD A15 | 25M | | | E3 | 25M | | |
| A 15L | | P1-I* | 19M 25 | | | P2-I* | 19M 24 | | |
| A 15R | | P1-H* | 19M 25 | | | P2-H* | 19M 24 | | |
| A 16 | 1 | | 430 400 8 9 5 | | | | 430 350 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 16A | 4 | SHLD A16 | 25M | | | E3 | 25M | | |
| A 16L | | P1-X | 19M 25 | | | P2-X | 19M 24 | | |
| A 16R | | P1-W | 19M 25 | | | P2-W | 19M 24 | | |
| A 17 | 1 | | 430 400 8 9 5 | | | | 430 350 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 17A | 4 | SHLD A17 | 25M | | | E3 | 25M | | |
| A 17L | | P1-K* | 19M 25 | | | P2-K* | 19M 24 | | |
| A 17R | | P1-J* | 19M 25 | | | P2-J* | 19M 24 | | |
| A 18 | 1 | | 430 400 8 9 5 | | | | 430 400 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 18A | 4 | SHLD A18 | 25M | | | E3 | 25M | | |
| A 18L | | P1-V | 19M 25 | | | P2-V | 19M 24 | | |
| A 18R | | P1-U | 19M 25 | | | P2-U | 19M 24 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR A SHEET 11 OF 14 | | | | |

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| A 1900958 | | | | | | | | | |
| CONDUCTOR | | FROM | | | TO | | | | |
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 19 | 1 | | 430 400 8 9 5 | | | | 430 400 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 19A | 4 | SHLD A19 | 25M | | | E3 | 25M | | |
| A 19L | | P1-KK | 19M 25 | | | P2-KK | 19M 24 | | |
| A 19R | | P1-JJ | 19M 25 | | | P2-JJ | 19M 24 | | |
| A 20 | 1 | | 480 450 8 9 5 | | | | 480 450 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 20A | 4 | SHLD A20 | 25M | | | E3 | 25M | | |
| A 20L | | P1-MM | 19M 25 | | | P2-MM | 19M 24 | | |
| A 20R | | P1-LL | 19M 25 | | | P2-LL | 19M 24 | | |
| A 21 | 1 | | 480 450 8 9 5 | | | | 480 450 A 14 7A | | |
| | | | | A 15 | | | | | |
| A 21A | 4 | SHLD A21 | 25M | | | E3 | 25M | | |
| A 21L | | P1-PP | 19M 25 | | | P2-PP | 19M 24 | | |
| A 21R | | P1-NN | 19M 25 | | | P2-NN | 19M 24 | | |
| A 22 | 2 | | 19M 25 | | | P2-E* | 19M 24 | | |
| A 23 | 2 | | 19M 25 | | | P2-A | 19M 24 | | |
| A 24 | 2 | | 19M 25 | | | P2-C | 19M 24 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SCALE - NONE REV LTR A SHEET 12 OF 14 | | | | |

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|--|-----------------------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 190095 |
| | A | |
| SCALE - NONE | REV LTR A | SHE |



| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 17 | 3 | 1010490-256 | INSULATION-SLEEVEING ELEC |
| 10 | 18 | 1 | 1010490-198 | INSULATION-SLEEVEING ELEC |
| 10 | 19 | 1 | 1010490-200 | INSULATION-SLEEVEING ELEC |
| 10 | 20 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 21 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| | 22 | 1 | 1900958-006 | ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC, FLEXIBLE 1.00 DIA 17 FEET TOTAL LENGTH |
| | 23 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900958 |
| SCALE - NONE | REV LTR + | SHEET 6 of 14 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| A 1 | 1 | | 230 | 200 | 8 9 5 | | 230 | 200 | A 16 7A |
| | | | | A 15 | | | | | |
| A 1A | 4 | SHLD A1 | 22N | | | E1 | 37N | | |
| A 1L | | P1-B* | 22N | | | P2-R* | 22N | | |
| A 1R | | P1-A* | 22N | | | P2-A* | 22N | | |
| A 2 | 1 | | 230 | 200 | 8 9 5 | | 230 | 200 | A 16 7A |
| | | | | A 15 | | | | | |
| A 2A | 4 | SHLD A2 | 22N | | | E1 | 37N | | |
| A 2L | | P1-D* | 22N | | | P2-D* | 22N | | |
| A 2R | | P1-C* | 22N | | | P2-C* | 22N | | |
| A 3 | 1 | | 2 | 200 | 8 9 5 | | 230 | 200 | A 16 |
| | | | | A 15 | | | | | |
| A 3A | 4 | SHLD A3 | 22N | | | E1 | 37N | | |
| A 3L | | P1-N* | 22N | | | P2-N* | 22N | | |
| A 3R | | P1-M* | 22N | | | P2-M* | 22N | | |
| A 4 | 1 | | 230 | 200 | 8 9 5 | | 230 | 200 | A 16 7A |
| | | | | A 15 | | | | | |
| A 4A | 4 | SHLD A4 | 22N | | | E1 | 37N | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900958 |
| SCALE - NONE | REV LTR + | SHEET 7 OF 14 |

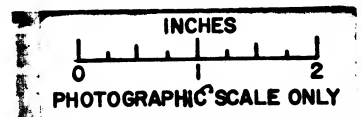
| LIST OF MATERIAL | | | | |
|------------------|------|-------|----------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900958-001 | WIRE ND 1002181, TYPE 2, CLASS 4, WHT JACKET, 20 AWG WHT/BLU,WHT/RED, 375 FT TOTAL LENGTH |
| | 2 | 1 | 1900958-002 | WIRE ND 1002181, TYPE 1, CLASS 1, WHT JACKET, 20 AWG, 85 FT TOTAL LENGTH |
| | 3 | 1 | 1900958-003 | WIRE ND 1002181, TYPE 1, CLASS 4, WHT JACKET, 20 AWG, 27 FT TOTAL LENGTH |
| | 4 | 1 | 1900958-004 | WIRE ND 1002181, TYPE 1, CLASS 1, WHT JACKET, 22 AWG, 30 FT TOTAL LENGTH |
| | 5 | 1 | 1900958-005 | WIRE ND 1002181, TYPE 3, CLASS 4, WHT JACKET, 20 AWG,WHT/BLU,WHT/RED,WHT/YEL 17 FT TOTAL LENGTH |
| 16 | 6 | 1 | MS3126F24-61SW | (1897048-611) CONNECTOR PLUG |
| 16 | 7 | 1 | MS3126F24-61PW | (1897047-611) CONNECTOR PLUG |
| 10 | 8 | 21 | 1000243-014 | FERRULE-ELEC, CONDUCTOR |
| 10 | 9 | 21 | 1000242-012 | FERRULE-ELEC, CONDUCTOR |
| 10 | 10 | 1 | 1000243-015 | FERRULE-ELEC, CONDUCTOR |
| 10 | 11 | 1 | 1000242-016 | FERRULE-ELEC, CONDUCTOR |
| 10 | 12 | 1 | 1000243-004 | FERRULE-ELEC, CONDUCTOR |
| 10 | 13 | 1 | 1000242-004 | FERRULE-ELEC, CONDUCTOR |
| 10 | 14 | 3 | 1016006-003 | SPLICE REDUCER |
| 10 | 15 | 22 | 1010490-194 | INSULATION-SLEEVEING ELEC |
| 10 | 16 | 22 | 1010490-196 | INSULATION-SLEEVEING ELEC |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900958 |
| SCALE - NONE | REV LTR + | SHEET 5 of 14 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| NUMBER | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | |
| A 4L | | P1-Q* | 22N | | | P2-Q* | 22N | | |
| A 4R | | P1-P* | 22N | | | P2-P* | 22N | | |
| A 5 | 1 | | 280 | 250 | 8 9 5 | | 280 | 250 | A 16 7A |
| | | | | A 15 | | | | | |
| A 5A | 4 | SHLD A5 | 22N | | | E1 | 37N | | |
| A 5L | | P1-S* | 22N | | | P2-S* | 22N | | |
| A 5R | | P1-R* | 22N | | | P2-R* | 22N | | |
| A 6 | 1 | | 280 | 250 | 8 9 5 | | 280 | 250 | A 16 7A |
| | | | | A 15 | | | | | |
| A 6A | 4 | SHLD A6 | 22N | | | E1 | 37N | | |
| A 6L | | P1-U* | 22N | | | P2-U* | 22N | | |
| A 6R | | P1-T* | 22N | | | P2-T* | 22N | | |
| A 7 | 1 | | 280 | 250 | 8 9 5 | | 280 | 250 | A 16 7A |
| | | | | A 15 | | | | | |
| A 7A | 4 | SHLD A7 | 22N | | | E1 | 37N | | |
| A 7L | | P1-X* | 22N | | | P2-X* | 22N | | |
| A 7R | | P1-W* | 22N | | | P2-W* | 22N | | |
| A 8 | 1 | | 280 | 250 | 8 9 5 | | 280 | 250 | A 16 7A |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900958 |
| SCALE - NONE | REV LTR + | SHEET 8 OF 14 |



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| CONDUCTOR | | | | FROM | | | | TO | | | | | | | |
|-------------------|----------|--|--|----------------------|-----|-----|-------|----------------------|-----|-----|--|-------------------|----|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | |
| | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | ITEM NO. | | | |
| NUMBER | ITEM NO. | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | ITEM NO. | | | |
| A 11R | | | | P1-EE | 22N | | | P2-EE | 22N | | | | | | |
| A 12 | 1 | | | | 380 | 350 | 8 9 5 | | 380 | 350 | | A 16 | 7A | | |
| | | | | | | | A 15 | | | | | | | | |
| A 12A | 4 | | | SHLD A12 | 22N | | | E2 | 37N | | | | | | |
| A 12L | | | | P1-HH | 22N | | | P2-HH | 22N | | | | | | |
| A 12R | | | | P1-GG | 22N | | | P2-GG | 22N | | | | | | |
| A 13 | 1 | | | | 380 | 350 | 8 9 5 | | 380 | 350 | | A 16 | 7A | | |
| | | | | | | | A 15 | | | | | | | | |
| A 13A | 4 | | | SHLD A13 | 22N | | | E2 | 37N | | | | | | |
| A 13L | | | | P1-G* | 22N | | | P2-G* | 22N | | | | | | |
| A 13R | | | | P1-F* | 22N | | | P2-F* | 22N | | | | | | |
| A 14 | 1 | | | | 380 | 350 | 8 9 5 | | 380 | 350 | | A 16 | 7A | | |
| | | | | | | | A 15 | | | | | | | | |
| A 14A | 4 | | | SHLD A14 | 22N | | | E2 | 37N | | | | | | |
| A 14L | | | | P1-Z | 22N | | | P2-Z | 22N | | | | | | |
| A 14R | | | | P1-Y | 22N | | | P2-Y | 22N | | | | | | |
| A 15 | 1 | | | | 380 | 350 | 8 9 5 | | 380 | 350 | | A 16 | 7A | | |
| | | | | | | | A 15 | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| CONDUCTOR | | FROM | | | | | TO | | | | | | |
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| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | 1 | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | 1 | | | |
| A 15A | 4 | SHLD A15 | 22N | | | | E3 | 37N | | | | | |
| A 15L | | P1-I* | 22N | | | | P2-I* | 22N | | | | | |
| A 15R | | P1-H* | 22N | | | | P2-H* | 22N | | | | | |
| A 16 | 1 | | 430 400 8 9 5 | | | | | 430 350 | A 16 | 7A | | | |
| | | | | A 15 | | | | | | | | | |
| A 16A | 4 | SHLD A16 | 22N | | | | E3 | 37N | | | | | |
| A 16L | | P1-X | 22N | | | | P2-X | 22N | | | | | |
| A 16R | | P1-W | 22N | | | | P2-W | 22N | | | | | |
| A 17 | 1 | | 430 400 8 9 5 | | | | | 430 350 | A 16 | 7A | | | |
| | | | | A 15 | | | | | | | | | |
| A 17A | 4 | SHLD A17 | 22N | | | | E3 | 37N | | | | | |
| A 17L | | P1-K* | 22N | | | | P2-K* | 22N | | | | | |
| A 17R | | P1-J* | 22N | | | | P2-J* | 22N | | | | | |
| A 18 | 1 | | 430 400 8 9 5 | | | | | 430 400 | A 16 | 7A | | | |
| | | | | A 15 | | | | | | | | | |
| A 18A | 4 | SHLD A18 | 22N | | | | E3 | 37N | | | | | |
| A 18L | | P1-V | 22N | | | | P2-V | 22N | | | | | |
| A 18R | | P1-U | 22N | | | | P2-U | 22N | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900958 | | | |
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| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
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| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | | ITEM NO. | 2 | STRIP WIRE OR JACKET | | CIRCUIT POINT | | 2 | 1 | 2 | ITEM NO. | | 2 | STRIP WIRE OR JACKET | | CIRCUIT POINT | | 2 | 1 | 2 | ITEM NO. | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| A | 8A | 4 | | SHLD A8 | | 22N | | | | | A 15 | | | E2 | | 37N | | | | | | | |
| A | 8L | | | P1-Z* | | 22N | | | | | | | | P2-Z* | | 22N | | | | | | | |
| A | 8R | | | P1-Y* | | 22N | | | | | | | | P2-Y* | | 22N | | | | | | | |
| A | 9 | 1 | | | | 330 | 300 | 8 | 9 | 5 | | | | | | 330 | 300 | A 16 | 7A | | | | |
| | | | | | | | | | | | A 15 | | | | | | | | | | | | |
| A | 9A | 4 | | SHLD A9 | | 22N | | | | | | | | E2 | | 37N | | | | | | | |
| A | 9L | | | P1-BB | | 22N | | | | | | | | P2-BB | | 22N | | | | | | | |
| A | 9R | | | P1-AA | | 22N | | | | | | | | P2-AA | | 22N | | | | | | | |
| A | 10 | 1 | | | | 330 | 300 | 8 | 9 | 5 | | | | | | 330 | 300 | A 16 | 7A | | | | |
| | | | | | | | | | | | A 15 | | | | | | | | | | | | |
| A | 10A | 4 | | SHLD A10 | | 22N | | | | | | | | E2 | | 37N | | | | | | | |
| A | 10L | | | P1-DD | | 22N | | | | | | | | P2-DD | | 22N | | | | | | | |
| A | 10R | | | P1-CC | | 22N | | | | | | | | P2-CC | | 22N | | | | | | | |
| A | 11 | 1 | | | | 330 | 300 | 8 | 9 | 5 | | | | | | 330 | 300 | A 16 | 7A | | | | |
| | | | | | | | | | | | A 15 | | | | | | | | | | | | |
| A | 11A | 4 | | SHLD A11 | | 22N | | | | | | | | E2 | | 37N | | | | | | | |
| A | 11L | | | P1-FF | | 22N | | | | | | | | P2-FF | | 22N | | | | | | | |
| <div>1</div> THE STD CONDUCTOR TERMINATION FIGURES ARE PER <div>2</div> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | | 1900958 | | | | | |
| | | | | | | | | | | | | | | A | | | | | | | | | |
| | | | | | | | | | | | | | | SCALE - NONE | | REV LTR | | + | | SHEET | | 9 OF 14 | |

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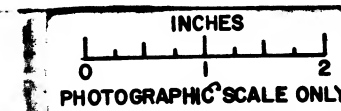
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| CONDUCTOR | | | FROM | | | | | TO | | | | |
|---|----------|--|----------------------|---------------|-------------------|-------|--|----------------------|---------------|-------------------|----------------|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | |
| A 19 | 1 | | | 430 | 400 | 8 9 5 | | | 430 | 400 | A 16 | 7A |
| | | | | | A 15 | | | | | | | |
| A 19A | 4 | | SHLD A19 | 22N | | | | E3 | 37N | | | |
| A 19L | | | P1-KK | 22N | | | | P2-KK | 22N | | | |
| A 19R | | | P1-JJ | 22N | | | | P2-JJ | 22N | | | |
| A 20 | 1 | | | 480 | 450 | 8 9 5 | | | 480 | 450 | A 16 | 7A |
| | | | | | A 15 | | | | | | | |
| A 20A | 4 | | SHLD A20 | 22N | | | | E3 | 37N | | | |
| A 20L | | | P1-MM | 22N | | | | P2-MM | 22N | | | |
| A 20R | | | P1-LL | 22N | | | | P2-LL | 22N | | | |
| A 21 | 1 | | | 480 | 450 | 8 9 5 | | | 480 | 450 | A 16 | 7A |
| | | | | | A 15 | | | | | | | |
| A 21A | 4 | | SHLD A21 | 22N | | | | E3 | 37N | | | |
| A 21L | | | P1-PP | 22N | | | | P2-PP | 22N | | | |
| A 21R | | | P1-NN | 22N | | | | P2-NN | 22N | | | |
| A 22 | 2 | | P1-E* | 22N | | | | P2-E* | 22N | | | |
| A 23 | 2 | | P1-A | 22N | | | | P2-A | 22N | | | |
| A 24 | 2 | | P1-C | 22N | | | | P2-C | 22N | | | |
| <div>1</div> THE STD CONDUCTOR TERMINATION FIGURES ARE PER <div>2</div> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900958 | |
| | | | | | | | SCALE - NONE | | REV LTR | | SHEET 12 OF 14 | |

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| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|----------|-------------------|--------------------|----------------------|---------------|--------------------|----------------------|---------------|
| INDIVIDUAL LENGTH | ITEM NO. | TERMINATION SPEC. | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT |
| NUMBER | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| A 25 | 2 | P1-D | 22N | | | P2-D | 22N | |
| A 26 | 2 | P1-E | 22N | | | P2-E | 22N | |
| A 27 | 5 | | 480 | 450 | 10 11 5 | | 480 | 450 |
| | | | | | A 15 | | | A 16 7A |
| A 27A | 4 | SHLD A27 | 22N | | | E3 | 37 | |
| A 27L | | P1-G | 22N | | | P2-F | 22N | |
| A 27R | | P1-F | 22N | | | P2-F | 22N | |
| A 27Y | | P1-H | 22N | | | P2-F | 22N | |
| A 28 | 2 | P1-B | 22N | | | E1 | 37N | |
| A 29 | 2 | E1 | 22N | | | E2 | 37N | |
| A 30 | 2 | E2 | 22N | | | E3 | 37N | |
| A 31 | 3 | | 480 | 450 | 12 13 5 | | 480 | 450 |
| | | | | | A 18 | | | A 19 7A |
| A 31A | 4 | SHLD A31 | 22N | | | E3 | 37N | |
| A 31W | | P1-J | 22N | | | P2-J | 22N | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

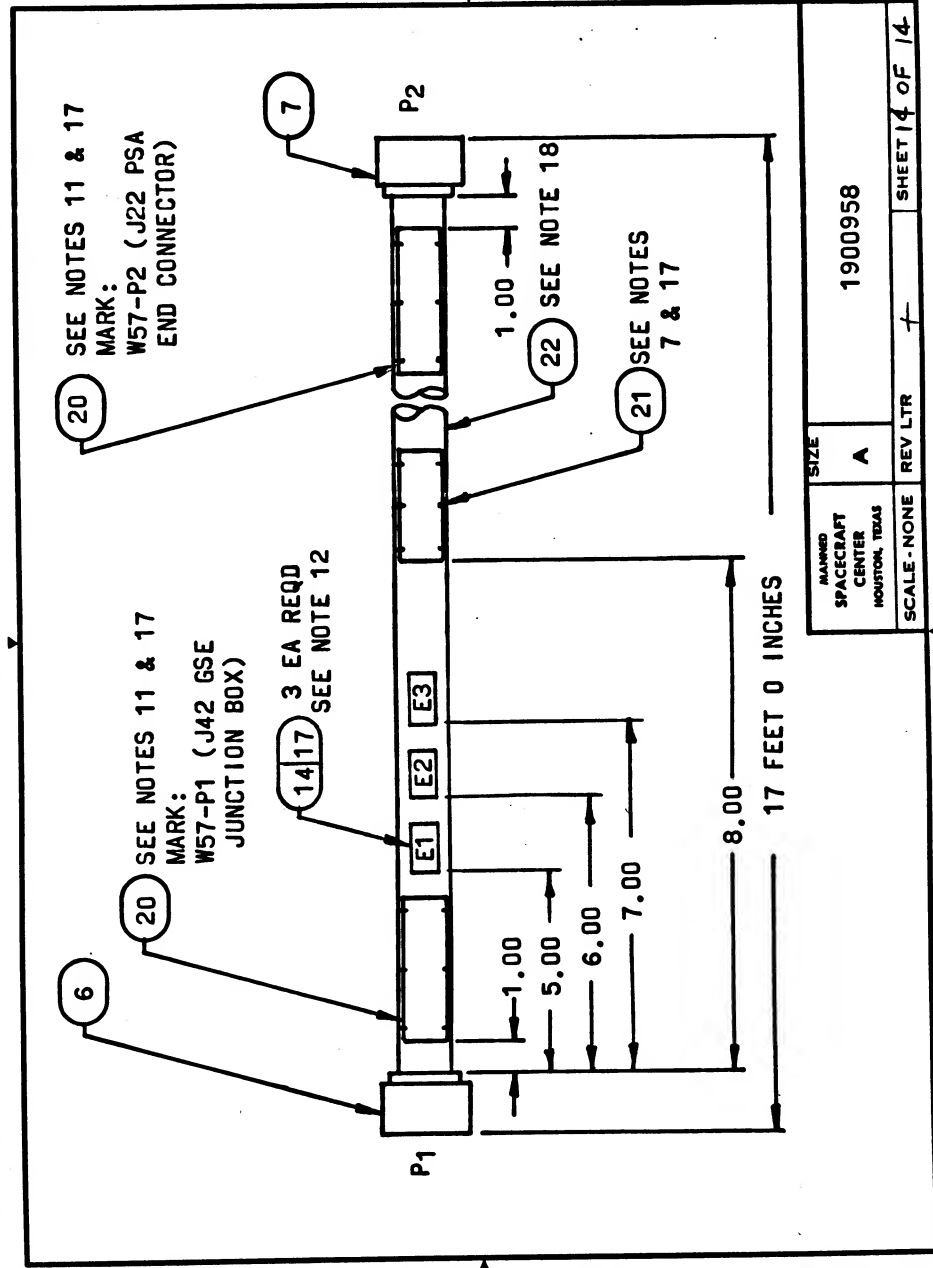
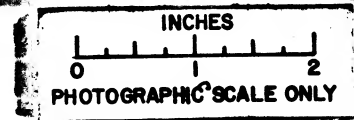
SCALE - NONE

REV LTR +

SIZE A

1900958

WIL 5085 - 4-85 WIL



WIL 5085 - 4-85 WIL

GHY CABLE W-22 A 1900959

| LIST OF MATERIALS | | | | |
|-------------------|------|-----|-------------------------------|--|
| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
| 17 | 1 | 1 | MS3126F-22-5552 (1897046-554) | CONNECTOR |
| 17 | 2 | 1 | MS3126F-24-61P (1897047-610) | CONNECTOR |
| | 3 | 1 | 1900959-001 | WIRE: ND1002181 TYPE 1 CLASS 1: 20AWG WHT. 432 FT. TOTAL LENGTH |
| | 4 | 1 | 1900959-002 | WIRE: ND1002181 TYPE 2 CLASS 1: 20AWG WHT. (CONDUCTORS MARKED R AND L RESPECTIVELY) 160 FT. TOTAL LENGTH |
| 13 | 5 | 20 | 1010499-200 | INSULATION-SLEEVING ELEC. |
| 10 | 6 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 7 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| | 8 | 1 | 1900959-003 | ZIPPER TUBING ND1002155 TYPE 1 PLASTIC. FLEXIBLE. .88 DIA 16 FT TOTAL LENGTH |
| | 9 | AR | MIL-S-713 | LACING TAPE TYPE P, CLASS 2, BLACK (ES-2752 NO. 18) |
| 20 | 10 | | | CONTACT, PINS |
| 21 | 11 | | | CONTACT, SOCKETS |
| 22 | 12 | AR | 1897147-112, 4116 | CABLE CLAMP SLEEVE |

MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS

SCALE: NONE REV LTR A SHEET 5 OF 10

GHY CABLE W-22 A 1900959

| CONDUCTOR | | FROM | | TO | |
|-------------------|---------|---------------------|------------------|---------------------|------------------|
| INDIVIDUAL LENGTH | ITEM NO | CUT WIRE OR SHIELD | TERMINATION SPEC | CUT WIRE OR SHIELD | TERMINATION SPEC |
| NUMBER | NO | STOP WIRE OR JACKET | ITEM NO | STOP WIRE OR JACKET | ITEM NO |
| A 1 | 3 | P1-H* | 19N | P2-R* | 19N |
| A 2 | 3 | P1-C* | 19N | P2-C* | 19N |
| A 3 | 3 | P1-D* | 19N | P2-D* | 19N |
| A 4 | 3 | P1-Y | 19N | P2-H* | 19N |
| A 5 | 3 | P1-Z | 19N | P2-F* | 19N |
| A 6 | 3 | P1-A* | 19N | P2-A* | 19N |
| A 7 | 3 | P1-V | 19N | P2-V | 19N |
| A 8 | 3 | P1-W | 19N | P2-G* | 19N |
| A 9 | 3 | P1-X | 19N | P2-X | 19N |
| A 10 | 3 | P1-G | 19N | P2-G | 19N |
| A 11 | 3 | P1-H | 19N | P2-H | 19N |
| A 12 | 3 | P1-J | 19N | P2-J | 19N |
| A 13 | 3 | P1-D | 19N | P2-D | 19N |
| A 14 | 3 | P1-E | 19N | P2-E | 19N |
| A 15 | 3 | P1-F | 19N | P2-F | 19N |
| A 16 | 3 | P1-A | 19N | P2-A | 19N |
| A 17 | 3 | P1-B | 19N | P2-B | 19N |
| A 18 | 3 | P1-C | 19N | P2-C | 19N |

MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS

SCALE: NONE REV LTR A SHEET 6 OF 10

GHY CABLE W-22 A 1900959

| CONDUCTOR | | FROM | | TO | |
|-------------------|---------|---------------------|------------------|---------------------|------------------|
| INDIVIDUAL LENGTH | ITEM NO | CUT WIRE OR SHIELD | TERMINATION SPEC | CUT WIRE OR SHIELD | TERMINATION SPEC |
| NUMBER | NO | STOP WIRE OR JACKET | ITEM NO | STOP WIRE OR JACKET | ITEM NO |
| A 19 | 3 | P1-R* | 19N | P2-R* | 19N |
| A 20 | 3 | P1-S* | 19N | P2-S* | 19N |
| A 21 | 3 | P1-N* | 19N | P2-AA | 19N |
| A 22 | 3 | P1-P* | 19N | P2-JJ | 19N |
| A 23 | 4 | | A 5 | | A 5 |
| A 23L | | P1-FF | 19N | P2-Y | 19N |
| A 23R | | P1-EE | 19N | P2-PP | 19N |
| A 24 | 4 | | A 5 | | A 5 |
| A 24L | | P1-HH | 19N | P2-CC | 19N |
| A 24R | | P1-GG | 19N | P2-LL | 19N |
| A 25 | 4 | | A 5 | | A 5 |
| A 25L | | P1-V* | 19N | P2-DD | 19N |
| A 25R | | P1-U* | 19N | P2-MM | 19N |
| A 26 | 4 | | A 5 | | A 5 |
| A 26L | | P1-X* | 19N | P2-Z | 19N |
| A 26R | | P1-W* | 19N | P2-KK | 19N |
| A 27 | 4 | | A 5 | | A 5 |
| A 27L | | P1-BB | 19N | P2-h | 19N |

MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS

SCALE: NONE REV LTR A SHEET 7 OF 10

GHY CABLE W-22 A 1900959

| CONDUCTOR | | FROM | | TO | |
|-------------------|---------|---------------------|------------------|---------------------|------------------|
| INDIVIDUAL LENGTH | ITEM NO | CUT WIRE OR SHIELD | TERMINATION SPEC | CUT WIRE OR SHIELD | TERMINATION SPEC |
| NUMBER | NO | STOP WIRE OR JACKET | ITEM NO | STOP WIRE OR JACKET | ITEM NO |
| A 27R | | P1-AA | 19N | P2-HH | 19N |
| A 28 | 4 | | A 5 | | A 5 |
| A 28L | | P1-DD | 19N | P2-EE | 19N |
| A 28R | | P1-CC | 19N | P2-NN | 19N |
| A 29 | 4 | | A 5 | | A 5 |
| A 29L | | P1-L | 19N | P2-L | 19N |
| A 29R | | P1-K | 19N | P2-K | 19N |
| A 30 | 4 | | A 5 | | A 5 |
| A 30L | | P1-N | 19N | P2-N | 19N |
| A 30R | | P1-M | 19N | P2-M | 19N |
| A 31 | 4 | | A 5 | | A 5 |
| A 31L | | P1-R | 19N | P2-R | 19N |
| A 31R | | P1-P | 19N | P2-P | 19N |
| A 32 | 4 | | A 5 | | A 5 |
| A 32L | | P1-T | 19N | P2-T | 19N |
| A 32R | | P1-G | 19N | P2-S | 19N |
| A 33 | 3 | P1-I* | 19N | P2-I* | 19N |
| A 34 | 3 | P1-J* | 19N | P2-J* | 19N |

MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS

SCALE: NONE REV LTR A SHEET 8 OF 10

1900959

1

2

3

4

5

6

7

8

9

10

11

12

P1

P2

2.00

8.00

16 FEET - 0 INCHES

SEE NOTE 22

SEE NOTES 11 & 17
MARK:
W22-P1 (J23 OPTICAL
INERTIAL ANALYZER)

SEE NOTES 11 & 17
MARK:
W22-P2 (J5 AGC
TEST SET)

SEE NOTE 22

SEE NOTE 18

SEE NOTES 7, 17 & 19

2

LOCATION TOLERANCE
(EXCEPT LENGTH):
+.50
-.50

| | | |
|--|---------|----------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900959 |
| | A | |
| SCALE: NONE | REV LTR | B |
| | | SHEET 10 of 10 |

NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

GENERAL NOTES

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900959 |
| SCALE - NONE | REV LTR | + |
| SHEET 2 of 10 | | |

MIL 2044 4-63

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 9. MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.

GENERAL NOTES

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900959 |
| SCALE - NONE | REV LTR | + |
| SHEET 3 of 10 | | |

MIL 2044 4-63

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|-------------|------------|-----------|-------------|------|----------|----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | DATE | APPROVAL |
| 1900095-01 | 1900095-01 | | | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04812 DATE 26/10/05

| | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| REV STATUS | + | + | + | + | + | + | + | + | + | + |
| REV SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | |
|--|---------|------------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | CABLE INTERCONNECT W22 |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | G&N TESTING |
| ACSP PN | 1900959 | SIZE A |
| CODE IDENT NO. | 1900959 | REV + |
| SCALE | NONE | SHEET 1 OF 10 |

| | | |
|--|----------|---------|
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | ACSP PN | 1900959 |
| CHECKED | APPROVAL | DATE |
| 5/10/63 | 5/10/63 | 5/10/63 |
| APPROVAL | APPROVAL | DATE |
| 5/10/63 | 5/10/63 | 5/10/63 |
| NASA APPROVAL | APPROVAL | DATE |
| 5/10/63 | 5/10/63 | 5/10/63 |
| MIT APPROVAL | APPROVAL | DATE |
| 5/10/63 | 5/10/63 | 5/10/63 |
| CONTRACT | NAS9-497 | |

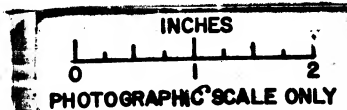
GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|-------------------------|-----------------------|----------------|---------------|
| | WIRE OR CABLE | STRIP WIRE JACKET | CUT WIRE SHIELD | WIRE SHIELD | CUT SHIELD |
| UNDER 1 INCH | +.06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | +.50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900959 |
| SCALE - NONE | REV LTR | + |
| SHEET 4 of 10 | | |

MIL 2044 4-63



| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 3 | P1-B* | 22N | | | P2-B* | 22N | | |
| A 2 | 3 | P1-C* | 22N | | | P2-C* | 22N | | |
| A 3 | 3 | P1-D* | 22N | | | P2-D* | 22N | | |
| A 4 | 3 | P1-Y | 22N | | | P2-H* | 22N | | |
| A 5 | 3 | P1-Z | 22N | | | P2-F* | 22N | | |
| A 6 | 3 | P1-A* | 22N | | | P2-A* | 22N | | |
| A 7 | 3 | P1-V | 22N | | | P2-V | 22N | | |
| A 8 | 3 | P1-W | 22N | | | P2-G* | 22N | | |
| A 9 | 3 | P1-X | 22N | | | P2-X | 22N | | |
| A 10 | 3 | P1-G | 22N | | | P2-G | 22N | | |
| A 11 | 3 | P1-H | 22N | | | P2-H | 22N | | |
| A 12 | 3 | P1-J | 22N | | | P2-J | 22N | | |
| A 13 | 3 | P1-D | 22N | | | P2-D | 22N | | |
| A 14 | 3 | P1-E | 22N | | | P2-E | 22N | | |
| A 15 | 3 | P1-F | 22N | | | P2-F | 22N | | |
| A 16 | 3 | P1-A | 22N | | | P2-A | 22N | | |
| A 17 | 3 | P1-B | 22N | | | P2-B | 22N | | |
| A 18 | 3 | P1-C | 22N | | | P2-C | 22N | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 - 4-85 WIR

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR + SHEET 6 OF 10

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 19 | 3 | P1-R* | 22N | | | P2-R* | 22N | | |
| A 20 | 3 | P1-S* | 22N | | | P2-S* | 22N | | |
| A 21 | 3 | P1-N* | 22N | | | P2-AA | 22N | | |
| A 22 | 3 | P1-P* | 22N | | | P2-JJ | 22N | | |
| A 23 | 4 | | | A 5 | | | | A 5 | |
| A 23L | | P1-FF | 22N | | | P2-Y | 22N | | |
| A 23R | | P1-EE | 22N | | | P2-PP | 22N | | |
| A 24 | 4 | | | A 5 | | | | A 5 | |
| A 24L | | P1-HH | 22N | | | P2-CC | 22N | | |
| A 24R | | P1-GG | 22N | | | P2-LL | 22N | | |
| A 25 | 4 | | | A 5 | | | | A 5 | |
| A 25L | | P1-V* | 22N | | | P2-DD | 22N | | |
| A 25R | | P1-U* | 22N | | | P2-MM | 22N | | |
| A 26 | 4 | | | A 5 | | | | A 5 | |
| A 26L | | P1-X* | 22N | | | P2-Z | 22N | | |
| A 26R | | P1-W* | 22N | | | P2-KK | 22N | | |
| A 27 | 4 | | | A 5 | | | | A 5 | |
| A 27L | | P1-BB | 22N | | | P2-W | 22N | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 - 4-85 WIR

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR + SHEET 7 OF 10

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|-----------------|---|
| 17 | 1 | 1 | MS3126F-22-55SZ | (1897046-554) CONNECTOR |
| 17 | 2 | 1 | MS3126F-24-61P | (1897047-610) CONNECTOR |
| | 3 | 1 | 1900959-001 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG, WHT, 432 FT TOTAL LENGTH |
| | 4 | 1 | 1900959-002 | WIRE ND 1002181 TYPE 2, CLASS 1, T2, 20 AWG, WHT (CONDUCTORS MARKED R & L RESPECTIVELY) 160 FT TOTAL LENGTH |
| 10 | 5 | 20 | 1010490-200 | INSULATION-SLEEVING ELEC |
| 10 | 6 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 7 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| | 8 | 1 | 1900959-003 | ZIPPER TUBING ND 1002155 TYPE 1 PLASTIC, FLEXIBLE, .62 DIA 16 FT TOTAL LENGTH |
| | 9 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2 BLACK (ES-2732 (NO. 18)) |

MIL 2084 4-83

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR + SHEET 5 OF 10

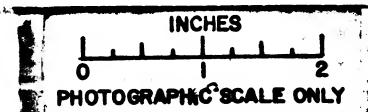
| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 27R | | P1-AA | 22N | | | P2-HH | 22N | | |
| A 28 | 4 | | | A 5 | | | | A 5 | |
| A 28L | | P1-DD | 22N | | | P2-EE | 22N | | |
| A 28R | | P1-CC | 22N | | | P2-NN | 22N | | |
| A 29 | 4 | | | A 5 | | | | A 5 | |
| A 29L | | P1-L | 22N | | | P2-L | 22N | | |
| A 29R | | P1-K | 22N | | | P2-K | 22N | | |
| A 30 | 4 | | | A 5 | | | | A 5 | |
| A 30L | | P1-N | 22N | | | P2-N | 22N | | |
| A 30R | | P1-M | 22N | | | P2-M | 22N | | |
| A 31 | 4 | | | A 5 | | | | A 5 | |
| A 31L | | P1-R | 22N | | | P2-R | 22N | | |
| A 31R | | P1-P | 22N | | | P2-P | 22N | | |
| A 32 | 4 | | | A 5 | | | | A 5 | |
| A 32L | | P1-T | 22N | | | P2-T | 22N | | |
| A 32R | | P1-S | 22N | | | P2-S | 22N | | |
| A 33 | 3 | P1-I* | 22N | | | P2-I* | 22N | | |
| A 34 | 3 | P1-J* | 22N | | | P2-J* | 22N | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 - 4-85 WIR

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR + SHEET 8 OF 10



| GHX | | CABLE W-45 | | A | | 1900960 | |
|---------|--|---|--|-----------|--|--------------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .12 INCH HIGH CHARACTERS BLACK. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | SOLDER PER MIL-STD-440 USING ITEMS 9 AND 10. | | | | | | |
| 13 | SECURE TO CABLE USING ITEM 11. MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 14 | SEAL ZIPPER TUBING PER ND1002153. | | | | | | |
| 15 | SERIALIZE PER ND1002023. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900960 | |
| | | SCALE - NONE | | REV LTR A | | SHEET 2 OF 6 | |

| GHX | | CABLE W-45 | | A | | 1900960 | |
|--|--|---|-----------|--------------|-----------|--------------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | |
| TOLERANCE | | | | | | | |
| | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | |
| UNDER 1 INCH | | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | |
| 1 INCH TO 6 INCHES | | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | |
| 6 INCHES TO 6 FEET | | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | |
| OVER 6 FEET | | + 2.00-.00 | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900960 | |
| | | SCALE - NONE | | REV LTR A | | SHEET 3 OF 6 | |

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|---|-----------|---|---|-------------------------------------|--------|---------------------------------------|--------|
| ASSY | USED ON | SYM | DESCRIPTION | DATE | DATE | DATE | DATE |
| 1901308 | 190005-01 | A | CHANGE IN ACCORDANCE WITH C/M 193623 09/24/64 | 6/6/64 | 6/6/64 | 6/6/64 | 6/6/64 |
| <p>FOR INFORMATION ONLY</p> <p>CLASS B RELEASE TDR No. <u>04812</u> DATE <u>26 June 63</u></p> | | | | | | | |
| REV SHEET | | REV STATUS | | REV SHEET | | REV SHEET | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | CABLE INTERCONNECT W45 QSS TESTING | | REV A | |
| DRAWN BY <u>W. J. H. 10/1/63</u> | | CHECKED BY <u>W. J. H. 10/1/63</u> | | APPROVAL BY <u>W. J. H. 10/1/63</u> | | NASA APPROVAL <u>W. J. H. 10/1/63</u> | |
| WIT APPROVAL <u>W. J. H. 10/1/63</u> | | CONTRACT NAS9-497 | | SCALE NONE | | SHEET 1 OF 6 | |

| GHX | | CABLE W-45 | | A | | 1900960 | |
|---------|----|---|--|---|-------------|--------------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | | ITEM | QTY | PART NO | DESCRIPTION | | |
| | 1 | 1 | 1900960-001 | WIRE ND1002181 TYPE 1, CLASS 1, 12AWG, WHT. 68 FT. TOTAL LENGTH | | | |
| | 2 | 1 | 1900960-002 | WIRE ND1002181 TYPE 1, CLASS 1, 14AWG, WHT. 85 FT. TOTAL LENGTH | | | |
| | 3 | 1 | 1900960-003 | WIRE ND1002181 TYPE 1, CLASS 1, 16AWG, WHT. 51 FT. TOTAL LENGTH | | | |
| | 4 | 1 | M53106R28-20PW (1897104-201) | CONNECTOR, PLUG | | | |
| | 5 | 1 | M53106R28-20SW (1897105-201) | CONNECTOR, PLUG | | | |
| 10 | 6 | 2 | 1016128-041 | BAND-IDENTIFICATION | | | |
| 10 | 7 | 1 | 1016128-011 | BAND-IDENTIFICATION | | | |
| | 8 | 1 | 1900960-004 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .75 DIA. 17 FT. TOTAL LENGTH | | | |
| | 9 | AR | QQ-S-571 | SOLDER SN60 (ES-2175 ALLOY 1) | | | |
| 10 | AR | QQ-S-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) | | | | |
| 11 | AR | MIL-T-713 | LACING TAPE TYPED, CLASS 2, BLACK (ES-2732 NO. 18) | | | | |
| 10 | 12 | 2 | 1016237-280 | CLAMP-STRAIN RELIEF | | | |
| 10 | 13 | 8 | 1015864-165 | INSULATION SLEEVING ELECTRICAL | | | |
| 10 | 14 | 10 | 1015864-166 | INSULATION SLEEVING ELECTRICAL | | | |
| 10 | 15 | 6 | 1015864-167 | INSULATION SLEEVING ELECTRICAL | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900960 | |
| | | SCALE - NONE | | REV LTR A | | SHEET 4 OF 6 | |

1900960

4 12

6

SEE NOTES 11 & 13
MARK:
W45-P1 (J30 GSE
JUNCTION BOX)

6

SEE NOTES 11 & 13
MARK:
W45-P2 (J20 PSA
END CONNECTOR)

5 12

P1

2.00

8.00

17 FEET 0 INCHES

7

8

2.00

P2

SEE NOTE 14

SEE NOTES
7, 13 & 15

| | | | |
|--|---|------|--------------|
| LOCATION TOLERANCE (EXCEPT LENGTH): ±.50 | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900960 |
| | | A | |
| SCALE - NONE | REV LTR | A | SHEET 6 of 6 |

| | | | | | | |
|---|------------|-----------|--|--------------|----------|---|
| APPLICATION | | REVISIONS | | | | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | |
| 1901308 | 190005-011 | A | CHANGE IN ACCORDANCE WITH C.M. 193623 09/24 | 6-8 | GG | |
| | | (M) | | | | |
| | | B | REPLACED WITH CHANGE BY REV C PER TDRR 21052 | 27 Jul 65 | GG | |
| | | | | | GOR | |
| | | | | | EF | |
| <div>FOR INFORMATION ONLY</div> <div>CLASS B RELEASE TDR No. <u>04812</u> DATE <u>26 Aug 83</u></div> | | | | | | |
| <div>B REPLACED WITH CHANGE BY REV C</div> | | | | | | |
| REV | 1 | 2 | 3 | 4 | 5 | 6 |
| SHEET | | | | | | |
| REV STATUS | REV | B | B | B | B | B |
| OF SHEETS | SHEET | 1 | 2 | 3 | 4 | 5 |
| AC SPARK PLUG DIVISION, GMC | | | | | | |
| ACSP PN | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | |
| DRAWN BY <u>W. J. K. 24/2/67</u> | | | | | | |
| CHECKED BY <u>W. J. K. 24/2/67</u> | | | | | | |
| APPROVAL BY <u>W. J. K. 24/2/67</u> | | | | | | |
| NASA APPROVAL BY <u>W. J. K. 24/2/67</u> | | | | | | |
| MIT APPROVAL BY <u>W. J. K. 24/2/67</u> | | | | | | |
| CONTRACT NAS9-497 | | | | | | |
| CODE DENT NO. | | | | SIZE | REV | |
| | | | | A | B | |
| SCALE NONE | | | | SHEET 1 OF 6 | | |

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
.12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- 12 SOLDER PER MIL-STD-440 USING ITEMS 9 AND 10.
- 13 SECURE TO CABLE USING ITEM 11. MARKING TO READ AWAY FROM CONNECTOR.
- 14 SEAL ZIPPER TUBING PER ND 1002153.
- 15 SERIALIZE PER ND 1002023.

| | | | |
|--|---------|---------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900960 | |
| SCALE - NONE | REV LTR | + | SHEET 2 of 6 |

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR
WIRE OR CABLE, STRIP
WIRE, STRIP JACKET, CUT
WIRE OR CUT SHIELD

TOLERANCE

| WIRE OR CABLE, STRIP | WIRE OR CABLE | STRIP | | CUT | |
|-------------------------|---------------|----------|----------|----------|----------|
| WIRE, STRIP JACKET, CUT | | WIRE | JACKET | WIRE | SHIELD |
| WIRE OR CUT SHIELD | | | | | |
| UNDER 1 INCH | + .06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | | |
|--|---------|---------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900960 | |
| SCALE - NONE | REV LTR | + | SHEET 3 of 6 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04812 DATE 26 Aug 63

| APPLICATION | | REVISIONS | | | |
|-------------|-------------|-----------|-------------|------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1900005-011 | 1900005-011 | | | | |

| | | | | | | | | | | | | | |
|---|--|---|--|---------|--|---------|--|-----|--|---|--|--|--|
| AC SPARK PLUG DIVISION , GMC MILWAUKEE, WISCONSIN ACSP PN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | |
| DRAWN <i>T. Koppstein</i> DATE <i>8-3-63</i> CHECKED <i>M. Manning</i> <i>5-40V-63</i> APPROVAL <i>T. Abraham</i> <i>5-40V-63</i> APPROVAL <i>T. Goodman</i> <i>11-26-63</i> | | CABLE INTERCONNECT W45 OSS TESTING | | | | | | | | | | | |
| NASA APPROVAL <i>629</i> <i>11-26-63</i> MIT APPROVAL <i>W. J. H.</i> <i>11-26-63</i> | | CODE IDENT NO. | | SIZE | | 1900960 | | REV | | 4 | | | |
| CONTRACT NAS 59-497 | | SCALE NONE | | SHEET 1 | | OF 6 | | | | | | | |

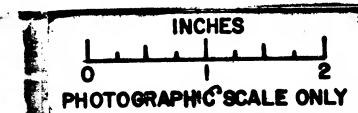
FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04812 DATE 26 Nov 83

LIST OF MATERIAL

| SEE NOTES | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|--------------|------|-------|----------------|--|
| | 1 | 1 | 1900960-001 | WIRE ND 1002181 TYPE 1, CLASS 1, 12 AWG, WHT, 68 FT TOTAL LENGTH |
| | 2 | 1 | 1900960-002 | WIRE ND 1002181 TYPE 1, CLASS 1, 14 AWG, WHT, 85 FT TOTAL LENGTH |
| | 3 | 1 | 1900960-003 | WIRE ND 1002181 TYPE 1, CLASS 1, 16 AWG, WHT, 51 FT TOTAL LENGTH |
| | 4 | 1 | MS3106R28-20PW | (1897104-201) CONNECTOR, PLUG |
| | 5 | 1 | MS3106R28-20SW | (1897105-201) CONNECTOR, PLUG |
| 10 | 6 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 7 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| | 8 | 1 | 1900960-004 | ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC, FLEXIBLE, 62 DIA 17 FT TOTAL LENGTH |
| | 9 | AR | QQ-S-571 | SOLDER SN60 (ES-2175 ALLOY 1) |
| | 10 | AR | QQ-S-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR |
| | | | MIL-F-14256 | FLUX (ES-2798) |
| | 11 | AR | MIL-T-713 | LACING TAPE TYPED, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 12 | 2 | 1016237-280 | CLAMP-STRAIN RELIEF |

| | | | |
|--|---------|---------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900960 | |
| SCALE - NONE | REV LTR | + | SHEET 4 of 6 |

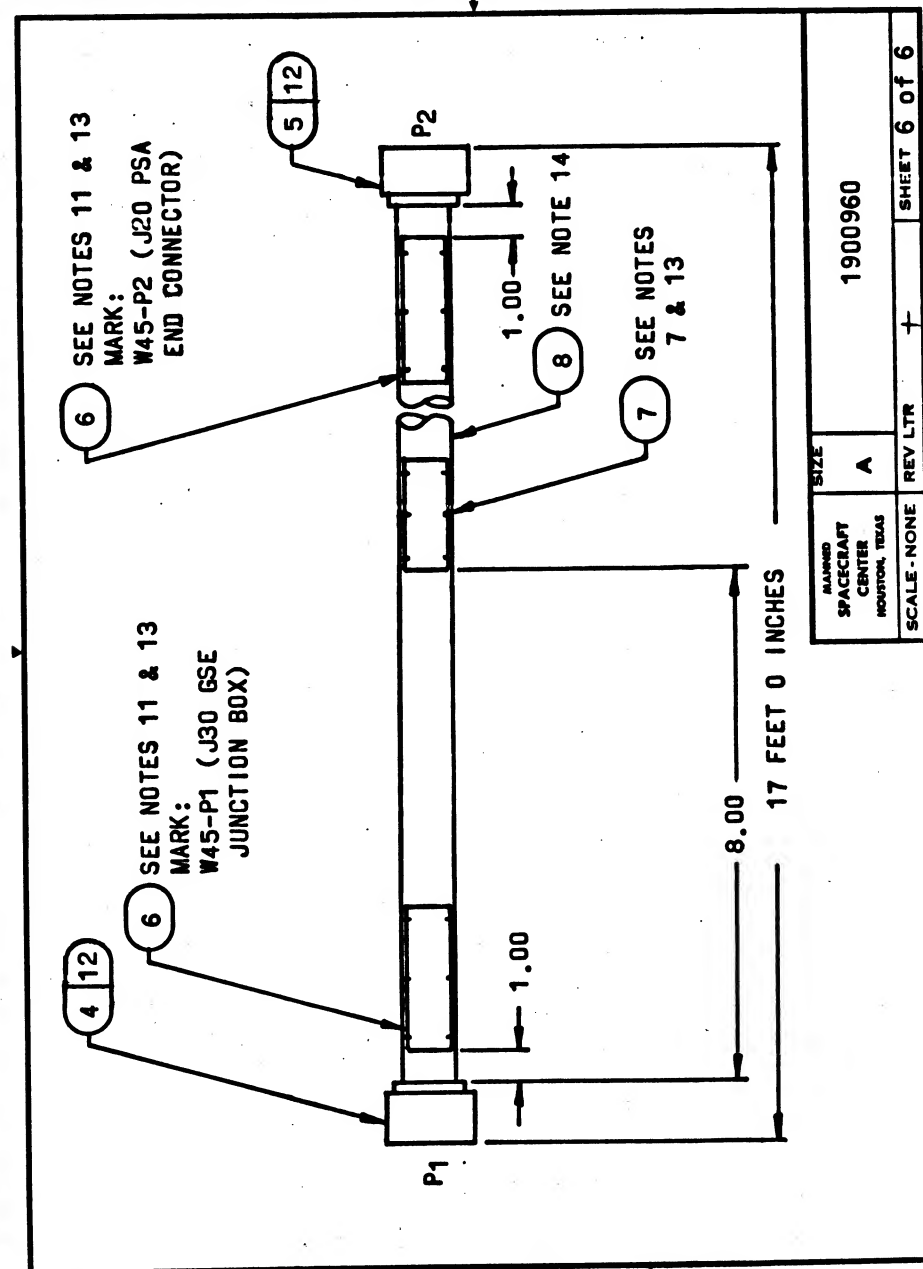


[illegible]

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY



| APPLICATION | | REVISIONS | | APPROVAL | |
|-------------|------------|-----------|-------------------------------------|----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901300 | 1900005-01 | A | CHANGE IN ACCORDANCE WITH CM 193497 | FEB 68 | GG |
| | | B | CHANGE IN ACCORDANCE WITH CM 193449 | FEB 68 | GG |
| | | C | CHANGE IN ACCORDANCE WITH CM 200711 | FEB 68 | GG |

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 04812 **DATE 06/08/82**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

AC SPARK PLUG DIVISION, GNC
 MANNED SPACECRAFT CENTER
 HOUSTON, TEXAS

CABLE INTERCONNECT W41
 TESTING

CODE IDENT NO. **1900961**
 SIZE **A**
 SCALE **NONE**
 SHEET **1 OF 7**

GENERAL NOTES

- SEE CONDUCTOR CHART, PENNANT NOTE 1.
- SEE CONDUCTOR CHART, PENNANT NOTE 2.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
- SPIRALLING OF THE MARKING IS ALLOWED.
- IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE.
- Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
- VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- SOLDER PER MIL-STD-880 USING ITEMS 7 AND 8.
- SECURE TO CABLE USING ITEM 10. MARKING TO READ AWAY FROM CONNECTOR.
- SEAL ZIPPER TUBING PER ND1002155.
- SERIALIZE PER ND1002023.

| | | |
|--|------------------|---------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900961 |
| SCALE: NONE | REV LTR C | SHEET 2 OF 7 |

GENERAL NOTES

- MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN. .12 INCH HIGH. COLOR BLACK PER ND1002019.
- MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH. COLOR BLACK. PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
 A - FROM END SHIELD
 R - WHITE WITH RED TRACER
 L - WHITE WITH BLUE TRACER

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD |
|--|---------------|-----------|--------------|-----------|------------|
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | + 2.00-.00 | | | | |

| | | |
|--|------------------|---------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900961 |
| SCALE: NONE | REV LTR B | SHEET 3 OF 7 |

LIST OF MATERIALS

| PENNANT NOTE | ITEM QTY | PART NO | DESCRIPTION |
|--------------|----------|-----------------------------|--|
| 1 | 1 | 1900961-001 | WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHT. 32 FT. TOTAL LENGTH |
| 2 | 1 | 1900961-002 | WIRE, ND1002181 TYPE 1, CLASS 1, 12AWG, WHT. 144 FT. TOTAL LENGTH |
| 3 | 1 | MS3106R28-20P (1897104-200) | CONNECTOR-PLUG |
| 4 | 1 | MS3106R28-20S (1897105-200) | CONNECTOR-PLUG |
| 5 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 6 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| 7 | AK | 00-S-571 | SOLDER SN60 (ES-2109 ALLOY 1) |
| 8 | AR | 00-S-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) |
| 9 | 1 | 1900961-003 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE .75 DIA. 16 FT. TOTAL LENGTH |
| 10 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 11 | 2 | 1016237-280 | CLAMP-STRAIN RELIEF |
| 12 | 1 | 1900961-004 | WIRE ND1002181 TYPE 2 CLASS 1 16AWG WHT JACKET WHT/BLU. WHT/RED 16 FT TOTAL LENGTH |
| 13 | 1 | 1000243-023 | FERRULE ELECT. CONDUCTOR |
| 14 | 1 | 1000242-018 | FERRULE ELECT. CONDUCTOR |
| 15 | 1 | 1900961-005 | WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT JACKET |

| | | |
|--|------------------|---------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900961 |
| SCALE: NONE | REV LTR C | SHEET 4 OF 7 |

| PENNANT | | | | | LIST OF MATERIALS | | | | |
|---------|------|-----|-------------|---------------------------------|-------------------|--|--|--|--|
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | | | |
| 10 | 18 | 2 | 1010490-194 | INSULATION SLEEVING, ELECTRICAL | | | | | |
| 10 | 18 | 8 | 1015864-167 | INSULATION SLEEVING, ELECTRICAL | | | | | |
| 10 | 18 | 19 | 1015864-165 | INSULATION SLEEVING, ELECTRICAL | | | | | |

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900961

SCALE - NONE
REV LTR
C
SHEET 5 OF 7

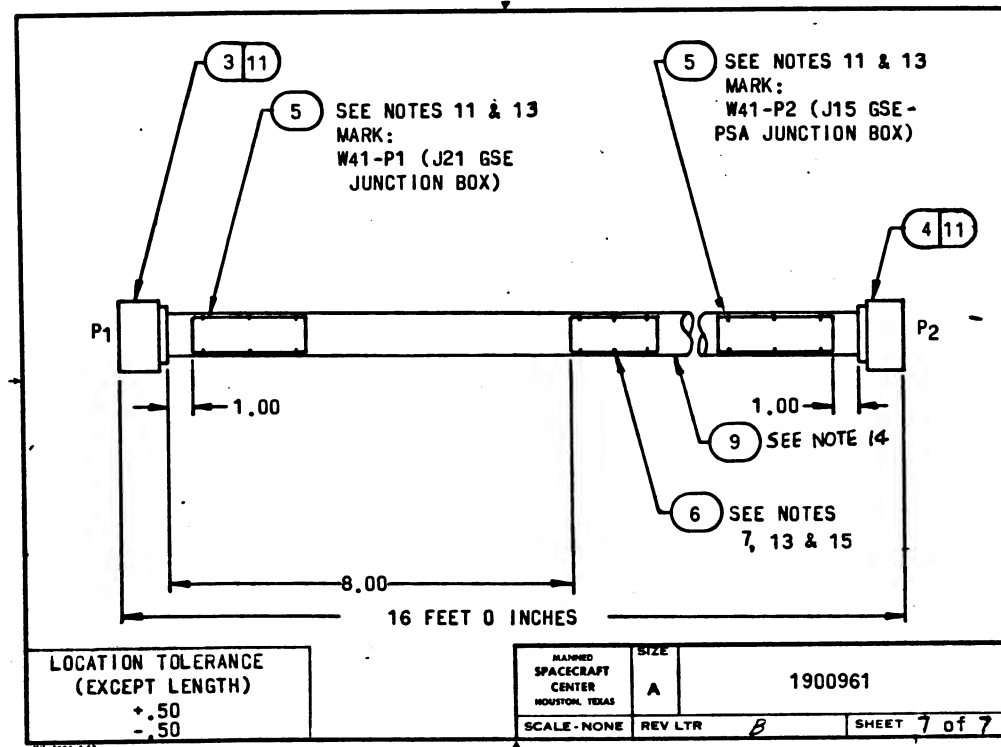
| CONDUCTOR | | | | | FROM | | | | | TO | | | | |
|-------------------|----|--|--|--|--------------------|-----|-----|----|----|--------------------|-----|-----|-----|------|
| INDIVIDUAL LENGTH | | | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | |
| NUMBER | | | | | ITEM NO | | | | | ITEM NO | | | | |
| CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | |
| A 1 | 1 | | | | P1-K | 31Y | 17 | | | P2-K | 31Y | 17 | | |
| A 2 | 2 | | | | P1-A | 31Y | 18 | | | P2-A | 31Y | 18 | | |
| A 3 | 2 | | | | P1-B | 31Y | 18 | | | P2-B | 31Y | 18 | | |
| A 4 | 2 | | | | P1-E | 31Y | 18 | | | P2-E | 31Y | 18 | | |
| A 5 | 1 | | | | P1-L | 31Y | 17 | | | P2-L | 31Y | 17 | | |
| A 6 | 2 | | | | P1-C | 31Y | 18 | | | P2-C | 31Y | 18 | | |
| A 7 | 2 | | | | P1-D | 31Y | 18 | | | P2-D | 31Y | 18 | | |
| A 8 | 2 | | | | P1-F | 31Y | 18 | | | P2-F | 31Y | 18 | | |
| A 9 | 2 | | | | P1-G | 31Y | 18 | | | P2-G | 31Y | 18 | | |
| A 10 | 2 | | | | P1-H | 31Y | 18 | | | P2-H | 31Y | 18 | | |
| A 11 | 2 | | | | P1-J | 31Y | 18 | | | P2-J | 31Y | 18 | | |
| A 12 | | | | | DELETED | | | | | | | | | |
| A 13 | | | | | DELETED | | | | | | | | | |
| A 14 | 12 | | | | | 930 | 500 | 15 | 14 | | | 930 | 500 | A 14 |
| A 14A | 15 | | | | SHLD A14 | 25 | | | | P1-P | 31Y | 18 | | |
| A 14L | | | | | P1-N | 31Y | 17 | | | P2-N | 31Y | 17 | | |
| A 14R | | | | | P1-M | 31Y | 17 | | | P2-M | 31Y | 17 | | |

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900961

SCALE - NONE
REV LTR
C
SHEET 6 OF 7



| | | | | | | | |
|----------|--|--|--|-----------|--|--------------|--|
| GMM | | CABLE W-41 | | D | | 1900961 | |
| PENNA NT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | | SEE CONDUCTOR CHART, PENNA NT NOTE 1. | | | | | |
| 2 | | SEE CONDUCTOR CHART, PENNA NT NOTE 2. | | | | | |
| 3 | | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | |
| 4 | | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | |
| 5 | | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | |
| 6 | | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | |
| 7 | | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | |
| 8 | | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | |
| 9 | | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | | | | |
| 10 | | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | |
| 11 | | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | |
| 12 | | SOLDER PER MIL-STD-440 USING ITEMS 7 AND 8. | | | | | |
| 13 | | SECURE TO CABLE USING ITEM 10. MARKING TO READ AWAY FROM CONNECTOR. | | | | | |
| 14 | | SEAL ZIPPER TUBING PER ND1002153. | | | | | |
| 15 | | SERIALIZE PER ND1002023. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR D | | SHEET 2 OF 8 | |

| | | | | | | | |
|----------|--|--|--|---------------|--|-----------------|--|
| GMM | | CABLE W-41 | | D | | 1900961 | |
| PENNA NT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 16 | | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | |
| 17 | | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | |
| 18 | | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | |
| 19 | | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD R - WHITE WITH RED TRACER L - WHITE WITH BLUE TRACER | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | TOLERANCE | | | |
| | | | | WIRE OR CABLE | | WIRE CUT SHIELD | |
| | | UNDER 1 INCH | | +.06-.00 | | +.03-.00 | |
| | | 1 INCH TO 6 INCHES | | +.50-.00 | | +.06-.00 | |
| | | 6 INCHES TO 6 FEET | | +1.00-.00 | | +.50-.50 | |
| | | OVER 6 FEET | | +2.00-.00 | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR D | | SHEET 3 OF 8 | |

| | | | | | | | |
|----------|--|---|--|-----------------------------|--|--|--|
| GMM | | CABLE W-41 | | D | | 1900961 | |
| PENNA NT | | LIST OF MATERIALS | | | | | |
| NOTE | | ITEM QTY | | PART NO | | DESCRIPTION | |
| 1 | | 1 | | 1900961-001 | | WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHT. 32 FT. TOTAL LENGTH | |
| 2 | | 1 | | 1900961-002 | | WIRE, ND1002181 TYPE 1, CLASS 1, 12AWG, WHT. 144 FT. TOTAL LENGTH | |
| 3 | | 1 | | MS3106R28-20P (1897104-200) | | CONNECTOR-PLUG | |
| 4 | | 1 | | MS3106R28-20S (1897105-200) | | CONNECTOR-PLUG | |
| 10 | | 5 | | 1016128-041 | | BAND-IDENTIFICATION | |
| 10 | | 6 | | 1016128-011 | | BAND-IDENTIFICATION | |
| 7 | | AR | | Q0-5-571 | | SOLDER SN60 (ES-2105 ALLOY 1) | |
| 8 | | AR | | Q0-5-571 | | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) | |
| 9 | | 1 | | 1900961-003 | | ZIPPER TUBING ND1002153 TYPE 1, PLASTIC, FLEXIBLE .75 DIA. 16 FT. TOTAL LENGTH | |
| 10 | | AR | | MIL-T-713 | | LACING TAPE TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | |
| 10 | | 11 | | 2 | | 1016237-280 | |
| 12 | | 1 | | 1900961-004 | | WIRE ND1002181 TYPE 2 CLASS 4 16AWG WHT JACKET WHT/BLU, WHT/RED 16 FT TOTAL LENGTH | |
| 10 | | 13 | | 1 | | 1000243-023 | |
| 10 | | 14 | | 1 | | 1000242-018 | |
| 15 | | 1 | | 1900961-005 | | WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT JACKET | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR D | | SHEET 4 OF 8 | |

| | | | | | | | |
|----------|--|---|--|-----------------------------|--|--|--|
| GMM | | CABLE W-41 | | D | | 1900961 | |
| PENNA NT | | LIST OF MATERIALS | | | | | |
| NOTE | | ITEM QTY | | PART NO | | DESCRIPTION | |
| 1 | | 1 | | 1900961-001 | | WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHT. 32 FT. TOTAL LENGTH | |
| 2 | | 1 | | 1900961-002 | | WIRE, ND1002181 TYPE 1, CLASS 1, 12AWG, WHT. 144 FT. TOTAL LENGTH | |
| 3 | | 1 | | MS3106R28-20P (1897104-200) | | CONNECTOR-PLUG | |
| 4 | | 1 | | MS3106R28-20S (1897105-200) | | CONNECTOR-PLUG | |
| 10 | | 5 | | 1016128-041 | | BAND-IDENTIFICATION | |
| 10 | | 6 | | 1016128-011 | | BAND-IDENTIFICATION | |
| 7 | | AR | | Q0-5-571 | | SOLDER SN60 (ES-2105 ALLOY 1) | |
| 8 | | AR | | Q0-5-571 | | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) | |
| 9 | | 1 | | 1900961-003 | | ZIPPER TUBING ND1002153 TYPE 1, PLASTIC, FLEXIBLE .75 DIA. 16 FT. TOTAL LENGTH | |
| 10 | | AR | | MIL-T-713 | | LACING TAPE TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | |
| 10 | | 11 | | 2 | | 1016237-280 | |
| 12 | | 1 | | 1900961-004 | | WIRE ND1002181 TYPE 2 CLASS 4 16AWG WHT JACKET WHT/BLU, WHT/RED 16 FT TOTAL LENGTH | |
| 10 | | 13 | | 1 | | 1000243-023 | |
| 10 | | 14 | | 1 | | 1000242-018 | |
| 15 | | 1 | | 1900961-005 | | WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT JACKET | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR D | | SHEET 4 OF 8 | |

GMM

CABLE W-41

D

1900961

CABLE W-41

b

1900961

GMM

CABLE W-41

D

1900961

[illegible]

| | | | | | | | |
|---------|--|--|--|------------|--|--------------|--|
| GMM | | CABLE W-41 | | DE | | 1900961 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | |
| 2 | | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | |
| 3 | | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | |
| 4 | | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | |
| 5 | | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | |
| 6 | | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | |
| 7 | | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | |
| 8 | | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | |
| 9 | | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | | | | |
| 10 | | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | |
| 11 | | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | |
| 12 | | SOLDER PER MIL-STD-440 USING ITEMS 7 AND 8. | | | | | |
| 13 | | SECURE TO CABLE USING ITEM 10. MARKING TO READ AWAY FROM CONNECTOR. | | | | | |
| 14 | | SEAL ZIPPER TUBING PER ND1002153. | | | | | |
| 15 | | SERIALIZE PER ND1002023. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR DE | | SHEET 2 OF 8 | |

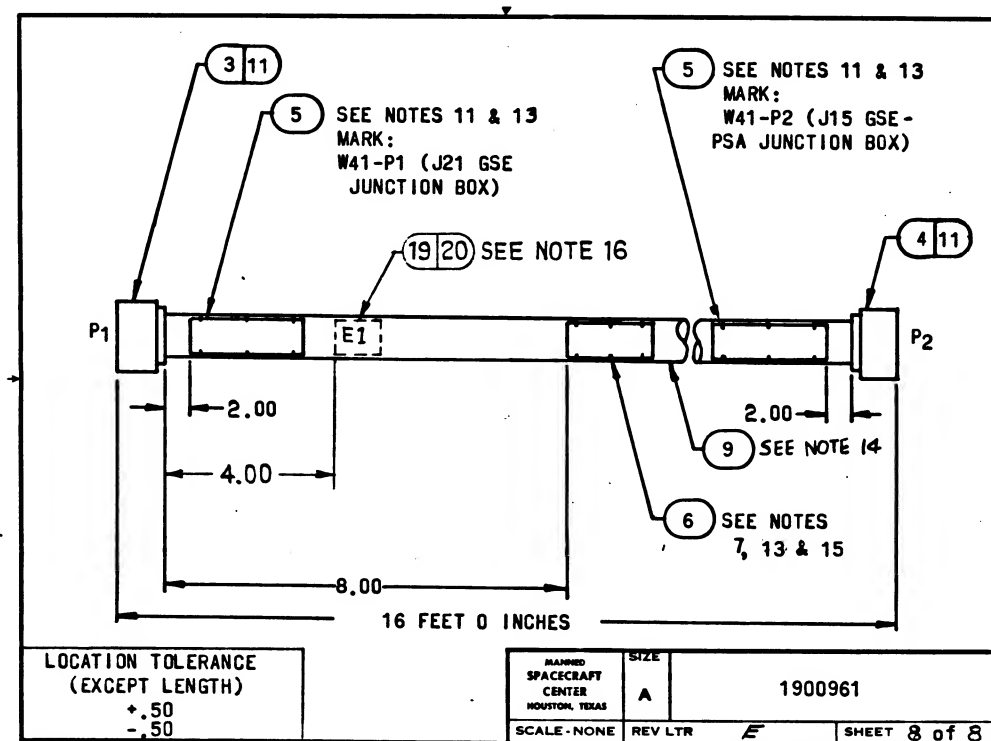
| | | | | | | | |
|---------|--|--|--|------------|--|--------------|--|
| GMM | | CABLE W-41 | | DE | | 1900961 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 16 | | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | |
| 17 | | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | |
| 18 | | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | |
| 19 | | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD R - WHITE WITH RED TRACER L - WHITE WITH BLUE TRACER | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | |
| | | TOLERANCE | | | | | |
| | | WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | | | |
| | | UNDER 1 INCH +.06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | |
| | | 1 INCH TO 6 INCHES +.50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | | | |
| | | 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | |
| | | OVER 6 FEET +2.00-.00 | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR DE | | SHEET 3 OF 8 | |

| | | | | | | | |
|---------|--|--|--|------------|--|--------------|--|
| GMM | | CABLE W-41 | | DE | | 1900961 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | | | | | | | |
| 1 | | 1 1 1900961-001 WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHT, 32 FT. TOTAL LENGTH | | | | | |
| 2 | | 2 1 1900961-002 WIRE, ND1002181 TYPE 1, CLASS 1, 12AWG, WHT, 144 FT. TOTAL LENGTH | | | | | |
| 3 | | 3 1 M53106R28-20P (1897104-200) CONNECTOR-PLUG | | | | | |
| 4 | | 4 1 M53106R28-20S (1897105-200) CONNECTOR-PLUG | | | | | |
| 10 | | 5 2 1016128-041 BAND-IDENTIFICATION | | | | | |
| 10 | | 6 1 1016128-011 BAND-IDENTIFICATION | | | | | |
| 7 | | AR QQ-5-571 SOLDER SN60 (ES-2105 ALLOY 1) | | | | | |
| 8 | | AR QQ-5-571 FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) | | | | | |
| 9 | | 1 1900961-003 ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE .75 DIA. 16 FT. TOTAL LENGTH | | | | | |
| 10 | | AR MIL-T-713 LACING TAPE TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | | | |
| 10 | | 11 2 1016237-280 CLAMP-STRAIN RELIEF | | | | | |
| 12 | | 1 1900961-004 WIRE ND1002181 TYPE 2 CLASS 4 16AWG WHT JACKET WHT/BLU, WHT/RED 16 FT TOTAL LENGTH | | | | | |
| 10 | | 13 1 1000243-023 FERRULE ELECT. CONDUCTOR | | | | | |
| 10 | | 14 1 1000242-018 FERRULE ELECT. CONDUCTOR | | | | | |
| 15 | | 1 1900961-005 WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT JACKETS | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR DE | | SHEET 4 OF 8 | |

| | | | | | | | |
|---------|--|--|--|------------|--|--------------|--|
| GMM | | CABLE W-41 | | DE | | 1900961 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | | | | | | | |
| 10 | | 16 2 1010490-194 INSULATION SLEEVING, ELECTRICAL | | | | | |
| 17 | | DELETED (1015864-167) | | | | | |
| 18 | | DELETED (1015864-165) | | | | | |
| 10 | | 19 1 1010490-258 INSULATION SLEEVING, ELECTRICAL | | | | | |
| 10 | | 20 1 1016006-002 SPLICE REDUCER | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900961 | |
| | | SCALE-NONE | | REV LTR DE | | SHEET 5 OF 8 | |

| CONDUCTOR | | FROM | | TO | |
|--|----|---|-----------------|----------------------|--------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. | | ITEM NO. | | ITEM NO. | |
| NO. | | NO. | | NO. | |
| A 1 | 1 | P1-K | 31Y | P2-K | 31Y |
| A 2 | 2 | P1-A | 31Y | P2-A | 31Y |
| A 3 | 2 | P1-B | 31Y | P2-B | 31Y |
| A 4 | 2 | P1-E | 31Y | P2-E | 31Y |
| A 5 | 1 | P1-L | 31Y | P2-L | 31Y |
| A 6 | 2 | P1-C | 31Y | P2-C | 31Y |
| A 7 | 2 | P1-D | 31Y | P2-D | 31Y |
| A 8 | 2 | P1-F | 31Y | P2-F | 31Y |
| A 9 | 2 | P1-G | 31Y | P2-G | 31Y |
| A 10 | 2 | P1-H | 31Y | P2-H | 31Y |
| A 11 | 2 | P1-P | 31Y | P2-P | 31Y |
| A 12 | | DELETED | | | |
| A 13 | | DELETED | | | |
| A 14 | 12 | | 530 500 13 14 5 | | 530 500 A 14 |
| | | | A 16 | | |
| A 14A | 15 | SHLD A14 | 25N | E1 | 25N |
| A 14L | | E1 | 25N | P2-N | 31Y |
| A 14R | | P1-M | 31Y | P2-M | 31Y |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR | |
| | | | | 1900961 | |
| | | | | SHEET 6 OF 8 | |

| CONDUCTOR | | FROM | | TO | |
|--|---|---|-----|----------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. | | ITEM NO. | | ITEM NO. | |
| NO. | | NO. | | NO. | |
| A 15 | 1 | E1 | 25N | P1-N | 31Y |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR | |
| | | | | 1900961 | |
| | | | | SHEET 7 OF 8 | |



| | | | | | | | | | | | |
|---|-------------|-----------|---|--------------|----------|------------|--|--|--|--|--|
| APPLICATION | | REVISIONS | | | | | | | | | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | | | | | | |
| 1901308 | 1900005-011 | E | REVISE & UPGRADED TO CLASS A PER 10/22/65 | 30-11-65 | MAA/MG | | | | | | |
| | | F | REPLACED WITH CHANGE BY 27JUL 65 | 27JUL 65 | JWB | | | | | | |
| | | F | REV. 6 PER DARR 21048 | 65 | JWB | | | | | | |
| F REPLACED WITH CHANGE BY REV G | | | | | | | | | | | |
| | | | | | | REV | | | | | |
| | | | | | | SHEET | | | | | |
| | | | | | | REV STATUS | | | | | |
| | | | | | | OF SHEETS | | | | | |
| | | | | | | SHEET | | | | | |
| | | | | | | 1 | | | | | |
| | | | | | | 2 | | | | | |
| | | | | | | 3 | | | | | |
| | | | | | | 4 | | | | | |
| AC SPARK PLUG DIVISION, GMC | | | | | | | | | | | |
| MILWAUKEE, WISCONSIN | | | | | | | | | | | |
| ACSP PN | | | | | | | | | | | |
| DRAWN BY <i>[Signature]</i> DATE 28/2/63 | | | | | | | | | | | |
| CHECKED BY <i>[Signature]</i> DATE 5/4/63 | | | | | | | | | | | |
| APPROVAL BY <i>[Signature]</i> DATE 5/4/63 | | | | | | | | | | | |
| APPROVAL BY <i>[Signature]</i> DATE 12/1/63 | | | | | | | | | | | |
| NASA APPROVAL BY <i>[Signature]</i> DATE 1/2/64 | | | | | | | | | | | |
| MIT APPROVAL BY <i>[Signature]</i> DATE 1/2/64 | | | | | | | | | | | |
| CONTRACT NAS 9-497 | | | | | | | | | | | |
| SCALE None | | | | SHEET 1 OF 8 | | | | | | | |

NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

GENERAL NOTES

| | | |
|--|-----------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900961 |
| SCALE - NONE | REV LTR + | SHEET 2 of 6 |

MIL 2084 4-63

NOTES

- 12 SOLDER PER MIL-STD-440 USING ITEMS 7 AND 8.
- 13 SECURE TO CABLE USING ITEM 10. MARKING TO READ AWAY FROM CONNECTOR.
- 14 SEAL ZIPPER TUBING PER ND 1002153.
- 15 SERIALIZE PER ND 1002023.

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | |
|--|------------------|----------------------|-------------|-----------|
| | WIRE OR CABLE | STRIP WIRE JACKET | CUT WIRE | SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | |

| | | |
|--|-----------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900961 |
| SCALE - NONE | REV LTR + | SHEET 3 of 6 |

MIL 2084 4-63

| APPLICATION | | REVISIONS | | DATE | APPROVAL |
|-------------|------------|-----------|-------------|------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | | |
| 190005-011 | 190005-011 | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 24812 DATE 2-6-63

| | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| REV STATUS | REV | REV | REV | REV | REV | REV | REV |
| OF SHEETS | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | |
| CABLE INTERCONNECT W41 TESTING | | | | | | | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | | | | | | |
| ACSP PN | | | | | | | |
| DRAWN <u>J. Thompson</u> DATE <u>2-6-63</u> | | | | | | | |
| CHECKED <u>J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| APPROVAL <u>D. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| APPROVAL <u>J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| NASA APPROVAL <u>W. J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| MIT APPROVAL <u>W. J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| CONTRACT <u>NAS 9-497</u> | | | | | | | |

| | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| REV STATUS | REV | REV | REV | REV | REV | REV | REV |
| OF SHEETS | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | |
| CABLE INTERCONNECT W41 TESTING | | | | | | | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | | | | | | |
| ACSP PN | | | | | | | |
| DRAWN <u>J. Thompson</u> DATE <u>2-6-63</u> | | | | | | | |
| CHECKED <u>J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| APPROVAL <u>D. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| APPROVAL <u>J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| NASA APPROVAL <u>W. J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| MIT APPROVAL <u>W. J. Thompson</u> DATE <u>5-10-63</u> | | | | | | | |
| CONTRACT <u>NAS 9-497</u> | | | | | | | |

LIST OF MATERIAL

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|---------------|--|
| | 1 | 1 | 1900961-001 | WIRE, ND 1002181 TYPE 1, CLASS 1, 16 AWG, WHT, 64 FT TOTAL LENGTH |
| | 2 | 1 | 1900961-002 | WIRE, ND 1002181 TYPE 1, CLASS 1, 12 AWG, WHT, 144 FT TOTAL LENGTH |
| | 3 | 1 | MS3106R28-20P | (1897104-200) CONNECTOR-PLUG |
| | 4 | 1 | MS3106R28-20S | (1897105-200) CONNECTOR-PLUG |
| 10 | 5 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 6 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| | 7 | AR | QQ-S-571 | SOLDER SN60 (ES-2105 ALLOY 1) |
| | 8 | AR | MIL-F-14256 | FLUX (ES-2798) OR |
| | | | QQ-S-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) |
| | 9 | 1 | 1900961-003 | ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC FLEXIBLE .62 DIA 16 FT TOTAL LENGTH |
| | 10 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 11 | 2 | 1016237-280 | CLAMP-STRAIN RELIEF |

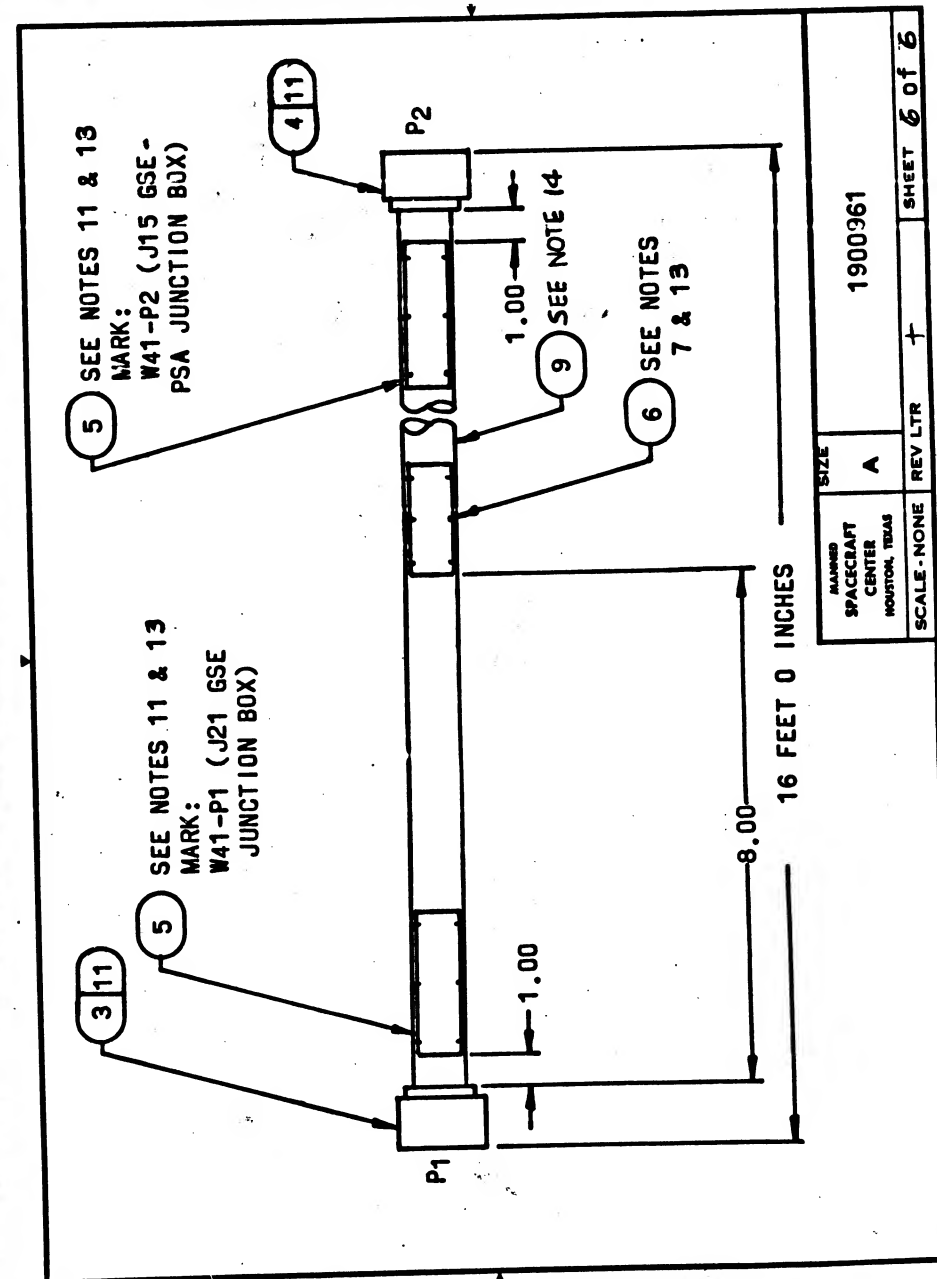
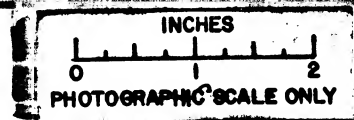
| | | |
|--|-----------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900961 |
| SCALE - NONE | REV LTR + | SHEET 4 of 6 |

MIL 2084 4-63



[illegible]

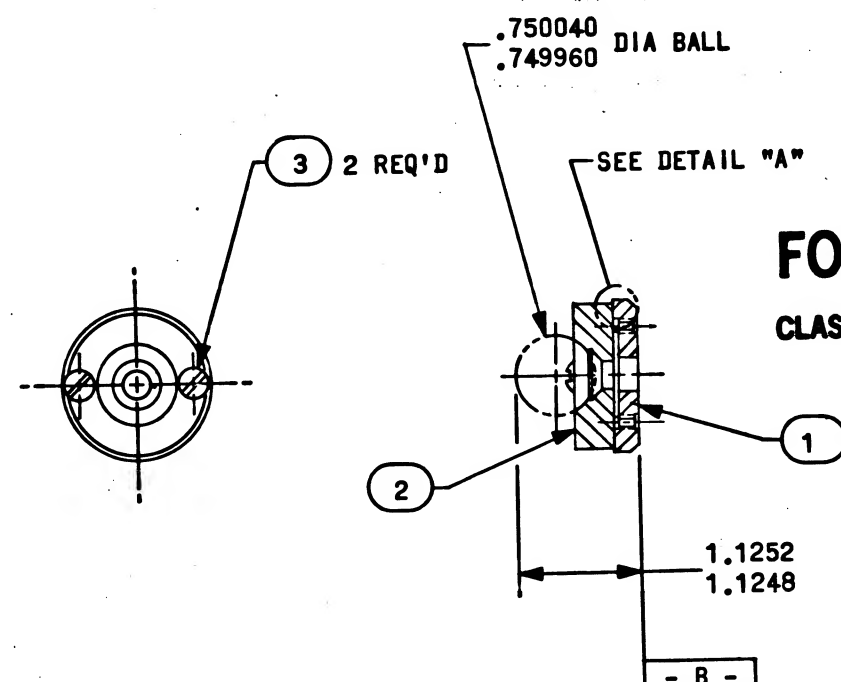
1997-1998



NOTES:

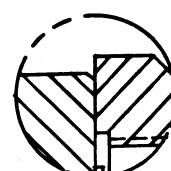
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
3. LAP INTERFACE OF ITEMS (1) AND (2) TO OBTAIN AREA CONTACT OF NOT LESS THAN 75%.
4. GRIND OR LAP SURFACE "B" TO OBTAIN DIMENSION INDICATED.
5. DRY FILM LUBRICATE PER MIL-L-25504.

| REVISIONS | | | | DATE | APPD. |
|-----------|------|-------------|---------|------|-------|
| SYM | ZONE | DESCRIPTION | CHG NO. | | |
| | | | | | |
| | | | | | |
| | | | | | |



FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 06595 DATE 25 Feb 64

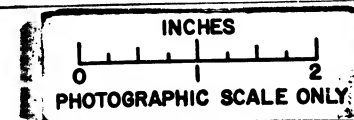


DETAIL "A"
SCALE 4:1

| QUANTITY REQUIRED | 2 | 3 | 1900965 | SCREW, SHOULDER |
|-------------------|-----|----------|----------------------------|--------------------------------|
| | 1 | 2 | 1900964 | INSERT, BALL MOUNT, PLANE |
| | 1 | 1 | 1900971 | INSERT, BALL MOUNT, PLANE BASE |
| | 011 | ITEM NO. | PART OR IDENTIFYING NUMBER | NOMENCLATURE OR DESCRIPTION |

| | | | | | |
|---|----------|---|----------------------------------|---|--------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | INSERT, BALL MOUNT, PLANE, ASSY OF | |
| + | + | + | 29 OCT 63 | | |
| --- | --- | --- | CHECKED <i>[Signature]</i> | | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL <i>[Signature]</i> | | |
| MATERIAL | | | NASA APPROVAL <i>[Signature]</i> | CODE IDENT NO. | SIZE |
| NEXT ASSY | | | MIT APPROVAL <i>[Signature]</i> | C | C |
| USED ON | | | | | |
| APPLICATION | | | CONTRACT NAS 9-497 | SCALE 1/1 | SHEET 1 OF 1 |

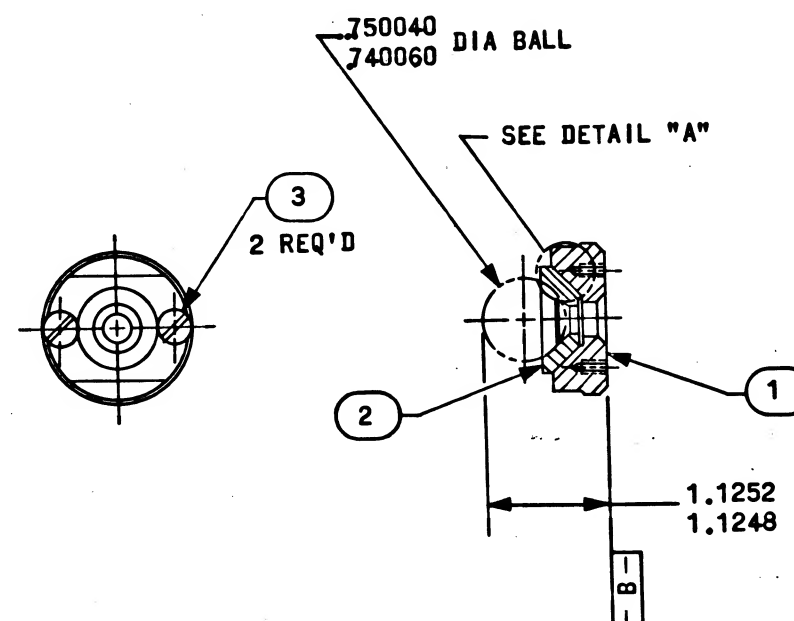
MASTER



NOTES:

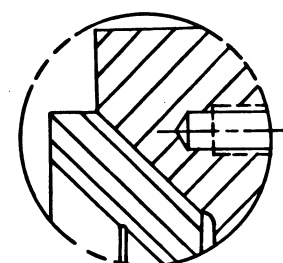
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
3. LAP INTERFACE OF ITEMS (1) AND (2) TO OBTAIN AREA CONTACT OF NOT LESS THAN 75%.
4. GRIND OR LAP SURFACE "B" TO OBTAIN DIMENSION INDICATED.
5. DRY FILM LUBRICATE PER MIL-L-25504.

| REVISIONS | | | | |
|-----------|------|-------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| | | | | |
| | | | | |
| | | | | |
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FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 06595 DATE 25 Feb 64



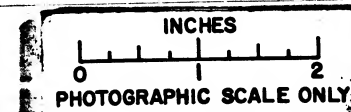
DETAIL "A"
SCALE 4:1

| | | | |
|---|----------|----------------------------|-------------------------------|
| 2 | 3 | 1900965 | SCREW, SHOULDER |
| 1 | 2 | 1900966 | INSERT, BALL MOUNT, LINE |
| 1 | 1 | 1900967 | INSERT, BALL MOUNT, LINE BASE |
| 011 | ITEM NO. | PART OR IDENTIFYING NUMBER | NOMENCLATURE OR DESCRIPTION |
| LIST OF PARTS AND MATERIALS | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| INSERT, BALL MOUNT, LINE, ASSY OF | | | |
| CODE IDENT NO. SIZE | | | |
| 1900970 | | | |
| SCALE 1/1 | | | |
| SHEET 1 of 1 | | | |

| | |
|-------------|-------------|
| 1900014-011 | 1900014-011 |
| 1900013-011 | 1900013-011 |
| NEXT ASSY | USED ON |
| APPLICATION | |

| | | |
|---|----------|--------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | |
| FRACTIONS | DECIMALS | ANGLES |
| + - | + - | + - |
| - - | - - | - - |
| DO NOT SCALE THIS DRAWING | | |
| MATERIAL | | |
| CONTRACT NAS 9-497 | | |

| | |
|--|------|
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | |
| ACSP PN | |
| DRAWN | DATE |
| CHECKED | DATE |
| APPROVAL | DATE |
| APPROVAL | DATE |
| NASA APPROVAL | DATE |
| MIT APPROVAL | DATE |



618 CABLE W18 C 1900974

PENNANT NOTE

GENERAL NOTES

1 SEE CONDUCTOR CHART, PENNANT NOTE 1.

2 SEE CONDUCTOR CHART, PENNANT NOTE 2.

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.

6 SPIRALLING OF THE MARKING IS ALLOWED.

7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE.

8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A

1900974

SCALE-NONE REV LTR C SHEET 2 OF 14

618 CABLE W18 C 1900974

PENNANT NOTE

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED —

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.

TOLERANCE

WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD

UNDER 1 INCH + .04-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06

1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25

6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50

OVER 6 FEET +2.00-.00

MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A

1900974

SCALE-NONE REV LTR C SHEET 4 OF 14

26-2A

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1/14

APPLICATION USED ON 1901308

REVISIONS

SYN DESCRIPTION DATE APPROVAL

A CHANGE IN ACCORDANCE WITH CM 1953357246 09 207 FEB JJJ

B CHANGE IN ACCORDANCE WITH CM 1955077074 09 207 MAR RUF

C CHANGE IN ACCORDANCE WITH CM 1958907074 09 207 APR JWP

D CHANGE IN ACCORDANCE WITH CM 196009 09 207 APR HSP

E CHANGE IN ACCORDANCE WITH CM 196920 09 207 MAY JJJ

REVISED PER TDR 09709

REV STATUS REV OF SHEET SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14

REV C C C C C C C C C C C C C C C C

REV E C C C C C C C C C C C C C C C C

REV D C C C C C C C C C C C C C C C C

REV B C C C C C C C C C C C C C C C C

REV A C C C C C C C C C C C C C C C C

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DATE 1/14

CHECKED BY 13

APPROVAL 13

APPROVAL 13

NASA APPROVAL 13

WMT APPROVAL 13

CONTRACT NAS 9-497

SCALE-NONE REV LTR C SHEET 1 OF 14

618 CABLE W18 C 1900974

PENNANT NOTE

GENERAL NOTES

14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER OR LETTER L
R - WHITE WITH RED TRACER OR LETTER R

16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.

17 SECURE TO CABLE USING ITEM 14, MARKING TO READ AWAY FROM CONNECTOR.

18 SEAL ZIPPER TUBING PER ND1002153

19 SERIALIZE PER ND1002023

20 ITEM 16 FURNISHED WITH ITEM 1.

21 ITEM 17 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 17 AS REQUIRED TO FIT.

22 THE FOLLOWING MULTICONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER. AS TWISTED PAIRS, CONDUCTORS (A36 AND A39), (A42 AND A45), (A51 AND A54) AND (A48 AND A57)

23 SEE NOTES 10 AND 16

MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A

1900974

SCALE-NONE REV LTR C SHEET 3 OF 14

| GIB | | CABLE W18 | | E | | 1900974 | |
|-------------------|------|-----------|-------------------------------|--|--|---------|--|
| LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 16 | 1 | 1 | M53126F-20-41SW (1897044-411) | CONNECTOR PLUG | | | |
| 23 | 2 | 1 | 1010621- | CONNECTOR PLUG | | | |
| | 3 | 1 | 1900974-001 | WIRE ND1002181 TYPE 2, CLASS 4, T2, 22AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY, 152 FT. TOTAL LENGTH. | | | |
| | 4 | 1 | 1900974-002 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG 12 FT. TOTAL LENGTH. | | | |
| | 5 | 1 | 1900974-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 50 FT. TOTAL LENGTH. | | | |
| 10 | 6 | 34 | 1010490-200 | INSULATION-SLEEVEING, ELEC | | | |
| 10 | 7 | 4 | 1000243-011 | FERRULE-ELEC COND | | | |
| 10 | 8 | 4 | 1000242-009 | FERRULE-ELEC COND | | | |
| 10 | 9 | 34 | 1016006-001 | SPICE REDUCER | | | |
| 10 | 10 | 1 | 1016128-011 | BAND-IDENTIFICATION | | | |
| 10 | 11 | 22 | 1010490-198 | INSULATION-SLEEVEING ELEC | | | |
| | 12 | 1 | 1900974-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE .615 IN. DIA. 38 FT. TOTAL LENGTH | | | |
| 10 | 13 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| | 14 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (E5-2732 NO. 18) | | | |
| 10 | 15 | 38 | 1010464- | CONTACTS, PINS | | | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR

E

SHEET 5 OF 14

| GIB | | CABLE W18 | | C | | 1900974 | |
|-------------------|------|-----------|--------------------------|--|--|---------|--|
| LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 20 | 16 | | | CONTACT SOCKETS | | | |
| 21 | 17 | AR | 1897147-106, 108 AND 112 | CABLE CLAMP SLEEVE | | | |
| | 18 | | 1900974-005 | WIRE 1002181 TYPE 3, CLASS 1, T3 20AWG, WHITE (MARKED L, R, AND Y RESPECTIVELY) 304 FT. TOTAL LENGTH | | | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR

C

SHEET 6 OF 14

| GIB | | CABLE W18 | | C | | 1900974 | |
|-------------------|----------|-----------|-----|-------------------|-----|-------------------|-----|
| CONDUCTOR | | | | | | | |
| INDIVIDUAL LENGTH | ITEM NO. | FROM | TO | TERMINATION SPEC. | NO. | TERMINATION SPEC. | NO. |
| 1 | 3 | 230 | 200 | 7 | 8 | 5 | |
| 1A | 4 | SHLD A1 | 25N | | | | |
| 1L | | P1-C* | 19N | 16 | | | |
| 1R | | P1-B* | 19N | 16 | | | |
| 2 | | DELETED | | | | | |
| 3 | | DELETED | | | | | |
| 4 | | DELETED | | | | | |
| 5 | | DELETED | | | | | |
| 5A | | DELETED | | | | | |
| 5L | | DELETED | | | | | |
| 5R | | DELETED | | | | | |
| 6 | 3 | 230 | 200 | 7 | 8 | 5 | |
| 6A | 4 | SHLD A6 | 25N | | | | |
| 6L | | P1-H* | 19N | 16 | | | |
| 6R | | P1-G* | 19N | 16 | | | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR

C

SHEET 7 OF 14

| GIB | | CABLE W18 | | C | | 1900974 | |
|-------------------|----------|-----------|-----|-------------------|-----|-------------------|-----|
| CONDUCTOR | | | | | | | |
| INDIVIDUAL LENGTH | ITEM NO. | FROM | TO | TERMINATION SPEC. | NO. | TERMINATION SPEC. | NO. |
| 7 | 3 | 230 | 200 | 7 | 8 | 5 | |
| 7A | 4 | SHLD A7 | 25N | | | | |
| 7L | | P1-P* | 19N | 16 | | | |
| 7R | | P1-N* | 19N | 16 | | | |
| 8 | | DELETED | | | | | |
| 9 | | DELETED | | | | | |
| 9A | | DELETED | | | | | |
| 9L | | DELETED | | | | | |
| 9R | | DELETED | | | | | |
| 10 | | DELETED | | | | | |
| 11 | | DELETED | | | | | |
| 11A | | DELETED | | | | | |
| 11L | | DELETED | | | | | |
| 11R | | DELETED | | | | | |
| 12 | | DELETED | | | | | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR

C

SHEET 8 OF 14

618

CABLE W18

C

1900974

| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|---|--|----------------------|-----|-----|-------------|---|---|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | SPEC. | | |
| CIRCUIT POINT | | | ITEM NO. | | | NO. | | |
| 13 | | | DELETED | | | | | |
| 14 | | | DELETED | | | | | |
| 15 | | | DELETED | | | | | |
| 16 | | | DELETED | | | | | |
| 17 | 3 | | | 280 | 250 | 7 | 8 | 9 |
| | | | | | | | | |
| | | | | | | | | |
| 17A | 4 | | SHLD A17 | 25N | | | | |
| 17L | | | P1-A* | 19N | 16 | | | |
| 17M | | | P1-Z | 19N | 16 | | | |
| 18 | | | DELETED | | | | | |
| 19 | | | DELETED | | | | | |
| 20 | | | DELETED | | | | | |
| 21 | | | DELETED | | | | | |
| 22 | | | DELETED | | | | | |
| 22A | | | DELETED | | | | | |
| 22L | | | DELETED | | | | | |
| 22M | | | DELETED | | | | | |
| 23 | | | DELETED | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR C

SHEET 9 OF 14

GIB

CABLE W10

D

1900974

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|--------------------|----------|-------------------|----------|-------------------|----------|--------------------|----------|-------------------|----------|-------------------|----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | TERMINATION POINT | ITEM NO. | TERMINATION POINT | ITEM NO. | TERMINATION POINT | ITEM NO. | TERMINATION POINT | ITEM NO. | TERMINATION POINT | ITEM NO. | TERMINATION POINT | ITEM NO. |
| A 23A | | DELETED | | | | | | | | | | | |
| A 23L | | DELETED | | | | | | | | | | | |
| A 23R | | DELETED | | | | | | | | | | | |
| A 24 | | DELETED | | | | | | | | | | | |
| A 24A | | DELETED | | | | | | | | | | | |
| A 24L | | DELETED | | | | | | | | | | | |
| A 24R | | DELETED | | | | | | | | | | | |
| A 25 | | DELETED | | | | | | | | | | | |
| A 25A | | DELETED | | | | | | | | | | | |
| A 25L | | DELETED | | | | | | | | | | | |
| A 25R | | DELETED | | | | | | | | | | | |
| A 26 | 4 | P1-J | 10N | 16 | | E1 | 25N | | | | | | |
| A 27 | 4 | E1 | 25N | | | E2 | 25N | | | | | | |
| A 28 | 4 | P2-19 | 10N | 15 | | P2-26 | 10N | 15 | | | | | |
| A 29 | | DELETED | | | | | | | | | | | |
| A 30 | 5 | P1-T | 10N | 16 | | E3 | 25N | | | | | | |
| A 31 | 4 | E3 | 25N | | | P2-17 | 10N | 15 | | | | | |
| A 32 | | DELETED | | | | | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR

D

SHEET 10 OF 1

GIB

CABLE W18

D

1900974

| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|----------|-------|---------|---------------|--|--|--|---------------|-----|----|--|
| INDIVIDUAL LENGTH | | | | TERMINATION | | | | TERMINATION | | | |
| CUT WIRE OR SHIELD | | | | SPEC. | | | | SPEC. | | | |
| STRIP WIRE OR JACKET | | | | ITEM NO. | | | | ITEM NO. | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | ITEM NO. | | | ITEM NO. | | | | ITEM NO. | | | |
| A 33 | | | DELETED | | | | | | | | |
| A 34 | 4 | P2-33 | 10M | 15 | | | | P2-34 | 10M | 15 | |
| A 35 | 5 | P1-R* | 19M | 16 | | | | E4 | 25M | | |
| A 36 | 18 | | | 6 | | | | | | 6 | |
| A 36L | | E4 | 25M | | | | | E5 | 25M | | |
| A 36R | | E4 | 25M | | | | | E5 | 25M | | |
| A 36Y | | E4 | 25M | | | | | E5 | 25M | | |
| A 37 | 4 | E5 | 25M | | | | | P2-32 | 10M | 15 | |
| A 38 | 5 | P1-Q* | 19M | 16 | | | | E6 | 25M | | |
| A 39 | 18 | | | 6 | | | | | | 6 | |
| A 39L | | E6 | 25M | | | | | E7 | 25M | | |
| A 39R | | E6 | 25M | | | | | E7 | 25M | | |
| A 39Y | | E6 | 25M | | | | | E7 | 25M | | |
| A 40 | 4 | E7 | 25M | | | | | P2-24 | 10M | 15 | |
| A 41 | 5 | P1-S* | 19M | 16 | | | | E8 | 25M | | |
| A 42 | 18 | | | 6 | | | | | | 6 | |
| A 42L | | E8 | 25M | | | | | E9 | 25M | | |
| A 42R | | E8 | 25M | | | | | E9 | 25M | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR

SHEET 11 OF 14

Doc. 2085 - 2-83 WTH

GIB

CABLE W18

c

1900974

| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|----|-------|----------------------|----|--|----------------------|-----|----|
| INDIVIDUAL LEN-TH | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | ITEM NO. | | |
| A 42Y | | E8 | 25N | | | E9 | 25N | |
| A 43 | 4 | E9 | 25N | | | P2-31 | 10N | 15 |
| A 44 | 5 | P1-A | 19N | 16 | | E10 | 25N | |
| A 45 | 10 | | | 6 | | | | 6 |
| A 45L | | E10 | 25N | | | E11 | 25N | |
| A 45R | | E10 | 25N | | | E11 | 25N | |
| A 45Y | | E10 | 25N | | | E11 | 25N | |
| A 46 | 4 | E11 | 25N | | | P2-23 | 10N | 15 |
| A 47 | 5 | P1-T* | 19N | 16 | | E12 | 25N | |
| A 48 | 10 | | | 6 | | | | 6 |
| A 48L | | E12 | 25N | | | E13 | 25N | |
| A 48R | | E12 | 25N | | | E13 | 25N | |
| A 48Y | | E12 | 25N | | | E13 | 25N | |
| A 49 | 4 | E13 | 25N | | | P2-35 | 10N | 15 |
| A 50 | 5 | P1-F* | 19N | 16 | | E14 | 25N | |
| A 51 | 10 | | | 6 | | | | 6 |
| A 51L | | E14 | 25N | | | E15 | 25N | |
| A 51R | | E14 | 25N | | | E15 | 25N | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

1900974

REV LTR C

SHEET 12 OF 14

11/10/06 4-63 WIR

618

CABLE W18

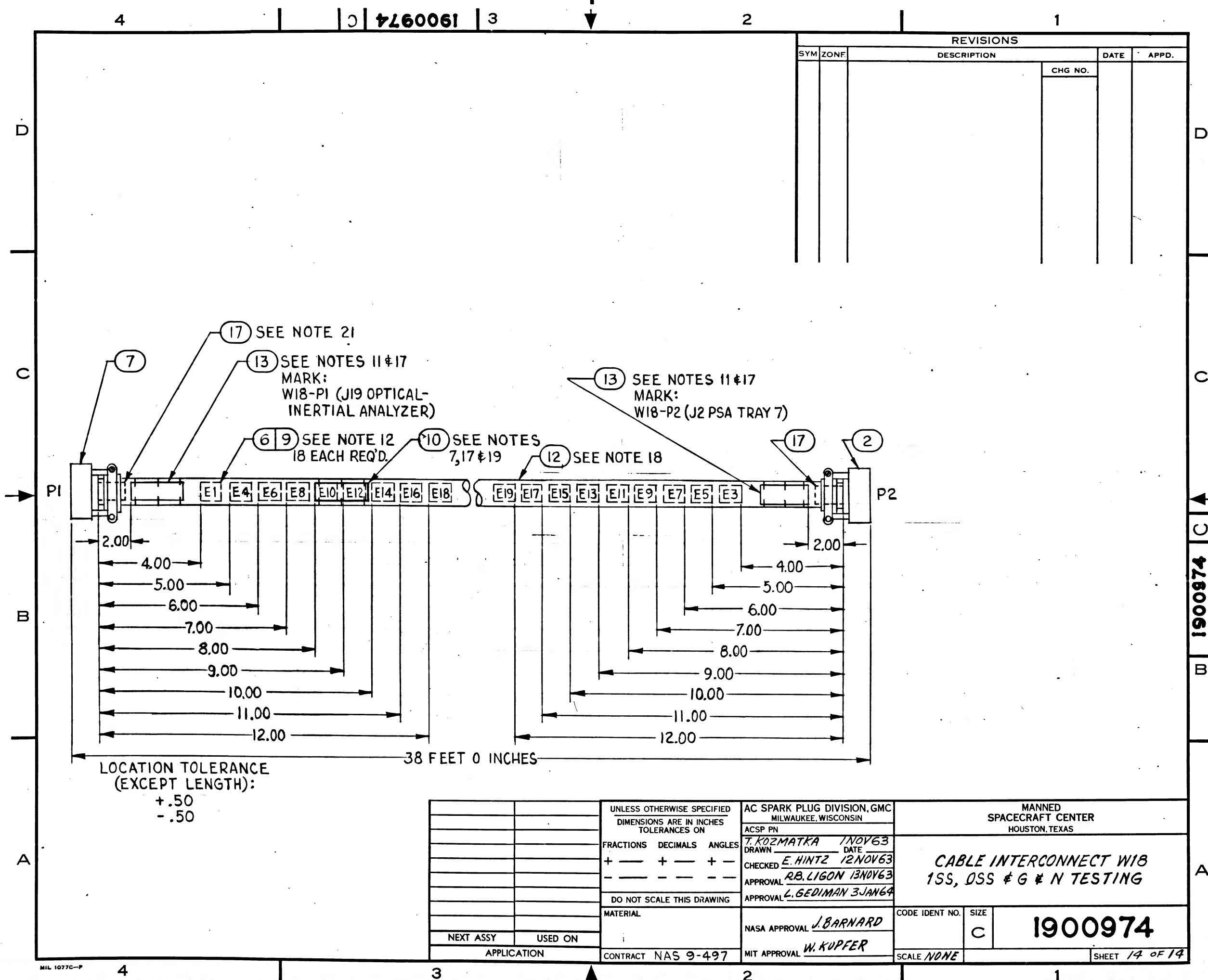
2

1900974

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|--|----------------------|------|----|-------------------|--|----|----------------------|-----|----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | TERMINATION SPEC. | | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | | | ITEM NO. | | | STRIP WIRE OR JACKET | | |
| | | | CIRCUIT POINT | | | | | | CIRCUIT POINT | | |
| A 51Y | | | E14 | 25M | | | | | E15 | 25M | |
| A 52 | 4 | | E15 | 25M | | | | | P2-36 | 10M | 15 |
| A 53 | 5 | | P1-E4 | 19M | 16 | | | | E16 | 25M | |
| A 54 | 18 | | | | 6 | | | | | | 6 |
| A 54L | | | E16 | 25M | | | | | E17 | 25M | |
| A 54R | | | E16 | 25M | | | | | E17 | 25M | |
| A 54Y | | | E16 | 25M | | | | | E17 | 25M | |
| A 55 | 4 | | E17 | 25M | | | | | P2-28 | 10M | 15 |
| A 56 | 5 | | P1-B | 19M | 16 | | | | E18 | 25M | |
| A 57 | 18 | | | | 6 | | | | | | 6 |
| A 57L | | | E18 | 25M | | | | | E19 | 25M | |
| A 57R | | | E18 | 25M | | | | | E19 | 25M | |
| A 57Y | | | E18 | 25M | | | | | E19 | 25M | |
| A 58 | 4 | | E19 | 25M | | | | | P2-27 | 10M | 15 |
| A 59 | 4 | | E3 | 25M | | | | | P2-18 | 10M | 15 |
| A 60 | 4 | | E3 | 25M | | | | | P2-25 | 10M | 15 |
| A 61 | 4 | | P2-9 | 10M | 15 | | | | P2-10 | 10M | 15 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|---|-----------------------------|----------------|
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 |
| SCALE - NONE | REV LTR D | SHEET 19 OF 14 |



| REVISIONS | | | | |
|-----------|------|-------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

| | | | | | |
|---|----------|---|--------------------|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | CABLE INTERCONNECT W18 | |
| + | + | + | 1 NOV 63 | 1SS, QSS & G & N TESTING | |
| - | - | - | 12 NOV 63 | | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL | 1900974 | |
| MATERIAL | | | APPROVAL | SCALE NONE | |
| NEXT ASSY | | | NASA APPROVAL | SHEET 14 OF 14 | |
| USED ON | | | MIT APPROVAL | | |
| APPLICATION | | | CONTRACT NAS 9-497 | | |

| APPLICATION | | REVISIONS | | | |
|-------------|-------------|-----------|--|-----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 1933857 DAK 01707 | FEB 64 | J J J |
| | | B | CHANGE IN ACCORDANCE WITH CM 1955077 DAK 09702 | MAY 64 | R J F |
| | | C | CHANGE IN ACCORDANCE WITH CM 1958901 DAK 09702 | 2 APR 64 | J J J |
| | | D | CHANGE IN ACCORDANCE WITH CM 1960909 DAK 09702 | 2 APR 64 | J J J |
| | | E | CHANGE IN ACCORDANCE WITH CM 1960909 DAK 09702 | 21 MAY 64 | J J J |
| | | F | CHANGE IN ACCORDANCE WITH CM 198677 DAK 2859 | JUL 64 | J J J |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1964

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| REV | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F |

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE INTERCONNECT W18
1SS, OSS & G & N TESTING

| | | |
|----------------|------|-----|
| CODE IDENT NO. | SIZE | REV |
| 1900974 | A | F |

CONTRACT NAS 9-497 SCALE NONE SHEET 1 OF 18

NASA APPROVAL *[Signature]*
MIT APPROVAL *[Signature]*

APPROVAL *[Signature]* DATE *[Date]*
CHECKED *[Signature]* DATE *[Date]*
APPROVAL *[Signature]* DATE *[Date]*
APPROVAL *[Signature]* DATE *[Date]*

| | | | | | |
|-------------|-------------|-----------|--|-----------|----------|
| APPLICATION | | REVISIONS | | | |
| TEXT ASST | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CA 193385 12/12/67 | FEB 68 | J J J |
| | | B | CHANGE IN ACCORDANCE WITH CM 195507 10/2/67 | MAY 68 | R F J B |
| | | C | CHANGE IN ACCORDANCE WITH CM 195589 07/28/67 | 2 APR 68 | J W P |
| | | D | CHANGE IN ACCORDANCE WITH CM 196009 09/20/67 | 22 | H S |
| | | E | CHANGE IN ACCORDANCE WITH CA 195920 | 21 MAY 68 | J J J |
| | | F | REVISED PER TDR 09709 CHANGE IN ACCORDANCE WITH CA 198677 10/22/69 | 27 JUL 68 | J J J |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 25663 DATE 1/16/68

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| REV STATUS | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV | REV |

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 1/16/68 DATE 1/16/68

CHECKED 1/16/68 DATE 1/16/68

APPROVAL 1/16/68 DATE 1/16/68

APPROVED 1/16/68 DATE 1/16/68

NASA APPROVAL 1/16/68 DATE 1/16/68

INT APPROVAL 1/16/68 DATE 1/16/68

CONTRACT NAS 9-497

SCALE NONE

CODE IDENT NO. A SIZE 1900974

CABLE INTERCONNECT W18
1SS, OSS & G & N TESTING

SPACECRAFT CENTER
HOUSTON, TEXAS

SHEET 1 OF 18

| GIB | | CABLE W18 | | F | | 1900974 | |
|---------|---|--|--|---------|---|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART. PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART. PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | | |
| | | SCALE-NONE | | REV LTR | F | | |
| | | | | SHEET | | 2 OF 18 | |

| GIB | | CABLE W18 | | F | | 1900974 | |
|---------|---|--|--|---------|---|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR LETTER L R - WHITE WITH RED TRACER OR LETTER R | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 14. MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002155 | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | ITEM 16 FURNISHED WITH ITEM 3. | | | | | | |
| 21 | ITEM 17 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 17 AS REQUIRED TO FIT. | | | | | | |
| 22 | THE FOLLOWING MULTICONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER. AS TWISTED PAIRS, CONDUCTORS (A36 AND A39), (A42 AND A45), (A51 AND A54) AND (A48 AND A57) | | | | | | |
| 23 | SEE NOTES 10 AND 16 | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | | |
| | | SCALE-NONE | | REV LTR | F | | |
| | | | | SHEET | | 3 OF 18 | |

| GIB | | CABLE W18 | | F | | 1900974 | |
|---------|--|--|--|---------|---|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | |
| | | TOLERANCE | | | | | |
| | | WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | | | |
| | | UNDER 1 INCH +.06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | |
| | | 1 INCH TO 6 INCHES +.50-.00 +.06-.00 +.25-.25 +.28-.25 +.25-.25 | | | | | |
| | | 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | |
| | | OVER 6 FEET +2.00-.00 | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | | |
| | | SCALE-NONE | | REV LTR | F | | |
| | | | | SHEET | | 4 OF 18 | |

| GIB | | CABLE W18 | | F | | 1900974 | |
|---------|----|--|--|---------|---|---------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | | | | | | | |
| 16 | 1 | 1 | MS3126F-20-41SW (1897044-411) CONNECTOR PLUG | | | | |
| 23 | 2 | 1 | 1010621- 2 CONNECTOR PLUG | | | | |
| | 3 | 1 | 1900974-001 WIRE ND1002181 TYPE 2, CLASS 4, T2, 22AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY, 152 FT. TOTAL LENGTH. | | | | |
| | 4 | 1 | 1900974-002 WIRE ND1002181 TYPE 1, CLASS 1, 22AWG 30 FT. TOTAL LENGTH. | | | | |
| | 5 | 1 | 1900974-003 WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 88 FT. TOTAL LENGTH. | | | | |
| 10 | 6 | 34 | 1010490-200 INSULATION-SLEEVING, ELEC | | | | |
| 10 | 7 | 16 | 1000243-011 FERRULE-ELEC COND | | | | |
| 10 | 8 | 16 | 1000242-009 FERRULE-ELEC COND | | | | |
| 10 | 9 | 34 | 1016006-001 SPLICE REDUCER | | | | |
| 10 | 10 | 1 | 1016128-011 BAND-IDENTIFICATION | | | | |
| 10 | 11 | 32 | 1010490-198 INSULATION-SLEEVING ELEC | | | | |
| | 12 | 1 | 1900974-004 ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE .75 IN. DIA. 38 FT. TOTAL LENGTH | | | | |
| 10 | 13 | 2 | 1016128-041 BAND IDENTIFICATION | | | | |
| | 14 | AR | MIL-T-713 LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | | |
| 10 | 15 | 38 | 1010464- 1 CONTACTS, PINS | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | | |
| | | SCALE-NONE | | REV LTR | F | | |
| | | | | SHEET | | 5 OF 18 | |

| GIB | | CABLE W16 | | F | | 1900974 | |
|---------------|---|---|--|-----------|--|---------------|--|
| GENERAL NOTES | | | | | | | |
| PENMANT | NOTE | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENMANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENMANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | |
| | | SCALE-NONE | | REV LTR F | | SHEET 2 OF 18 | |

| GIB | | CABLE W16 | | F | | 1900974 | |
|---------------|---|---|--|-----------|--|---------------|--|
| GENERAL NOTES | | | | | | | |
| PENMANT | NOTE | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR LETTER L R - WHITE WITH RED TRACER OR LETTER R | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 14, MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002155 | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | ITEM 16 FURNISHED WITH ITEM 16 | | | | | | |
| 21 | ITEM 17 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 17 AS REQUIRED TO FIT. | | | | | | |
| 22 | THE FOLLOWING MULTICONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER. AS TWISTED PAIRS, CONDUCTORS (A36 AND A39), (A42 AND A45), (A51 AND A54) AND (A48 AND A57) | | | | | | |
| 23 | SEE NOTES 10 AND 16 | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | |
| | | SCALE-NONE | | REV LTR F | | SHEET 3 OF 18 | |

| GIB | | CABLE W16 | | F | | 1900974 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|---|------------|--------------|-----------|---------------|--|--|--|-----------|--|--|--|--|--|---------------|------------|--------------|----------|------------|--------------|--|-----------|-----------|-----------|-----------|-----------|--------------------|--|-----------|-----------|-----------|-----------|-----------|--------------------|--|-----------|--|-----------|-----------|-----------|-------------|--|-----------|--|--|--|--|
| GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PENMANT | NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="4">TOLERANCE</th> </tr> <tr> <th colspan="2"></th> <th>WIRE OR CABLE</th> <th>STRIP WIRE</th> <th>STRIP JACKET</th> <th>CUT WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td colspan="2">UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td colspan="2">1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td colspan="2">6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td colspan="2">OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | TOLERANCE | | | | | | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | CUT WIRE | CUT SHIELD | UNDER 1 INCH | | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | | +2.00-.00 | | | | |
| | | TOLERANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | CUT WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | | REV LTR F | | SHEET 4 OF 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GIB | | CABLE W16 | | F | | 1900974 | |
|-------------------|------|---|-------------------------------|--|--|---------------|--|
| LIST OF MATERIALS | | | | | | | |
| PENMANT | NOTE | ITEM QTY | PART NO | DESCRIPTION | | | |
| 16 | 1 | 1 | MS3126F-20-41SW (1897044-411) | CONNECTOR PLUG | | | |
| 23 | 2 | 1 | 1010621- 2 | CONNECTOR PLUG | | | |
| | 3 | 1 | 1900974-001 | WIRE ND1002181 TYPE 2, CLASS 4, T2, 22AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY, 152 FT. TOTAL LENGTH. | | | |
| | 4 | 1 | 1900974-002 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG 30 FT. TOTAL LENGTH. | | | |
| | 5 | 1 | 1900974-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 88 FT. TOTAL LENGTH. | | | |
| 10 | 6 | 34 | 1010490-200 | INSULATION-SLEEVING, ELEC | | | |
| 10 | 7 | 16 | 1000243-011 | FERRULE-ELEC COND | | | |
| 10 | 8 | 16 | 1000242-009 | FERRULE-ELEC COND | | | |
| 10 | 9 | 34 | 1016006-001 | SPlice REDUCER | | | |
| 10 | 10 | 1 | 1016128-011 | BAND-IDENTIFICATION | | | |
| 10 | 11 | 32 | 1010490-198 | INSULATION-SLEEVING ELEC | | | |
| | 12 | 1 | 1900974-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE .75 IN. DIA. 38 FT. TOTAL LENGTH | | | |
| 10 | 13 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| | 14 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 15 | 38 | 1010464- 1 | CONTACTS, PINS | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | |
| | | SCALE-NONE | | REV LTR F | | SHEET 5 OF 18 | |

| CABLE W18 | | | | | | | | | |
|---|-------------------|----------|----------------------|------|----|-------------|------|----|-----------|
| 1900974 | | | | | | | | | |
| SCALE: NONE | | | | | | | | | |
| REVISION: A | | | | | | | | | |
| CENTER: HOUSTON, TEXAS | | | | | | | | | |
| SPACECRAFT: A | | | | | | | | | |
| SIZE: 1/2 | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | ITEM NO. | TERMINATION | FROM | TO | TERMINATION | FROM | TO | CONDUCTOR |
| A 42Y | DELETED | 1 | CUT WIRE OR SHIELD | | | | | | A 42Y |
| A 43 | DELETED | 2 | STRIP WIRE OR JACKET | | | | | | A 43 |
| A 44 | DELETED | 3 | STRIP WIRE OR JACKET | | | | | | A 44 |
| A 45 | DELETED | 4 | STRIP WIRE OR JACKET | | | | | | A 45 |
| A 46 | DELETED | 5 | STRIP WIRE OR JACKET | | | | | | A 46 |
| A 47 | DELETED | 6 | STRIP WIRE OR JACKET | | | | | | A 47 |
| A 48 | DELETED | 7 | STRIP WIRE OR JACKET | | | | | | A 48 |
| A 49 | DELETED | 8 | STRIP WIRE OR JACKET | | | | | | A 49 |
| A 50 | DELETED | 9 | STRIP WIRE OR JACKET | | | | | | A 50 |
| A 51 | DELETED | 10 | STRIP WIRE OR JACKET | | | | | | A 51 |
| A 51L | DELETED | 11 | STRIP WIRE OR JACKET | | | | | | A 51L |
| A 51R | DELETED | 12 | STRIP WIRE OR JACKET | | | | | | A 51R |

| CABLE W18 | | | | | | | | | |
|---|-------------------|----------|----------------------|------|----|-------------|------|----|-----------|
| 1900974 | | | | | | | | | |
| SCALE: NONE | | | | | | | | | |
| REVISION: A | | | | | | | | | |
| CENTER: HOUSTON, TEXAS | | | | | | | | | |
| SPACECRAFT: A | | | | | | | | | |
| SIZE: 1/2 | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | ITEM NO. | TERMINATION | FROM | TO | TERMINATION | FROM | TO | CONDUCTOR |
| A 23A | DELETED | 1 | CUT WIRE OR SHIELD | | | | | | A 23A |
| A 23L | DELETED | 2 | STRIP WIRE OR JACKET | | | | | | A 23L |
| A 23R | DELETED | 3 | STRIP WIRE OR JACKET | | | | | | A 23R |
| A 24 | DELETED | 4 | STRIP WIRE OR JACKET | | | | | | A 24 |
| A 24A | DELETED | 5 | STRIP WIRE OR JACKET | | | | | | A 24A |
| A 24L | DELETED | 6 | STRIP WIRE OR JACKET | | | | | | A 24L |
| A 24R | DELETED | 7 | STRIP WIRE OR JACKET | | | | | | A 24R |
| A 25 | DELETED | 8 | STRIP WIRE OR JACKET | | | | | | A 25 |
| A 25A | DELETED | 9 | STRIP WIRE OR JACKET | | | | | | A 25A |
| A 25L | DELETED | 10 | STRIP WIRE OR JACKET | | | | | | A 25L |
| A 25R | DELETED | 11 | STRIP WIRE OR JACKET | | | | | | A 25R |
| A 26 | DELETED | 12 | STRIP WIRE OR JACKET | | | | | | A 26 |
| A 26J | DELETED | 13 | STRIP WIRE OR JACKET | | | | | | A 26J |
| A 27 | DELETED | 14 | STRIP WIRE OR JACKET | | | | | | A 27 |
| A 28 | DELETED | 15 | STRIP WIRE OR JACKET | | | | | | A 28 |
| A 28L | DELETED | 16 | STRIP WIRE OR JACKET | | | | | | A 28L |
| A 29 | DELETED | 17 | STRIP WIRE OR JACKET | | | | | | A 29 |
| A 30 | DELETED | 18 | STRIP WIRE OR JACKET | | | | | | A 30 |
| A 31 | DELETED | 19 | STRIP WIRE OR JACKET | | | | | | A 31 |
| A 32 | DELETED | 20 | STRIP WIRE OR JACKET | | | | | | A 32 |

| CABLE W18 | | | | | | | | | |
|---|-------------------|----------|----------------------|------|----|-------------|------|----|-----------|
| 1900974 | | | | | | | | | |
| SCALE: NONE | | | | | | | | | |
| REVISION: A | | | | | | | | | |
| CENTER: HOUSTON, TEXAS | | | | | | | | | |
| SPACECRAFT: A | | | | | | | | | |
| SIZE: 1/2 | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | ITEM NO. | TERMINATION | FROM | TO | TERMINATION | FROM | TO | CONDUCTOR |
| A 51Y | DELETED | 1 | CUT WIRE OR SHIELD | | | | | | A 51Y |
| A 52 | DELETED | 2 | STRIP WIRE OR JACKET | | | | | | A 52 |
| A 53 | DELETED | 3 | STRIP WIRE OR JACKET | | | | | | A 53 |
| A 54 | DELETED | 4 | STRIP WIRE OR JACKET | | | | | | A 54 |
| A 54L | DELETED | 5 | STRIP WIRE OR JACKET | | | | | | A 54L |
| A 54R | DELETED | 6 | STRIP WIRE OR JACKET | | | | | | A 54R |
| A 55 | DELETED | 7 | STRIP WIRE OR JACKET | | | | | | A 55 |
| A 56 | DELETED | 8 | STRIP WIRE OR JACKET | | | | | | A 56 |
| A 57 | DELETED | 9 | STRIP WIRE OR JACKET | | | | | | A 57 |
| A 57L | DELETED | 10 | STRIP WIRE OR JACKET | | | | | | A 57L |
| A 57R | DELETED | 11 | STRIP WIRE OR JACKET | | | | | | A 57R |
| A 58 | DELETED | 12 | STRIP WIRE OR JACKET | | | | | | A 58 |
| A 59 | DELETED | 13 | STRIP WIRE OR JACKET | | | | | | A 59 |
| A 60 | DELETED | 14 | STRIP WIRE OR JACKET | | | | | | A 60 |
| A 61 | DELETED | 15 | STRIP WIRE OR JACKET | | | | | | A 61 |
| A 62 | DELETED | 16 | STRIP WIRE OR JACKET | | | | | | A 62 |

| CABLE W18 | | | | | | | | | |
|---|-------------------|----------|----------------------|------|----|-------------|------|----|-----------|
| 1900974 | | | | | | | | | |
| SCALE: NONE | | | | | | | | | |
| REVISION: A | | | | | | | | | |
| CENTER: HOUSTON, TEXAS | | | | | | | | | |
| SPACECRAFT: A | | | | | | | | | |
| SIZE: 1/2 | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | ITEM NO. | TERMINATION | FROM | TO | TERMINATION | FROM | TO | CONDUCTOR |
| A 33 | DELETED | 1 | CUT WIRE OR SHIELD | | | | | | A 33 |
| A 34 | DELETED | 2 | STRIP WIRE OR JACKET | | | | | | A 34 |
| A 35 | DELETED | 3 | STRIP WIRE OR JACKET | | | | | | A 35 |
| A 36 | DELETED | 4 | STRIP WIRE OR JACKET | | | | | | A 36 |
| A 36L | DELETED | 5 | STRIP WIRE OR JACKET | | | | | | A 36L |
| A 36R | DELETED | 6 | STRIP WIRE OR JACKET | | | | | | A 36R |
| A 37 | DELETED | 7 | STRIP WIRE OR JACKET | | | | | | A 37 |
| A 38 | DELETED | 8 | STRIP WIRE OR JACKET | | | | | | A 38 |
| A 39 | DELETED | 9 | STRIP WIRE OR JACKET | | | | | | A 39 |
| A 39L | DELETED | 10 | STRIP WIRE OR JACKET | | | | | | A 39L |
| A 39R | DELETED | 11 | STRIP WIRE OR JACKET | | | | | | A 39R |
| A 40 | DELETED | 12 | STRIP WIRE OR JACKET | | | | | | A 40 |
| A 41 | DELETED | 13 | STRIP WIRE OR JACKET | | | | | | A 41 |
| A 42 | DELETED | 14 | STRIP WIRE OR JACKET | | | | | | A 42 |
| A 42L | DELETED | 15 | STRIP WIRE OR JACKET | | | | | | A 42L |
| A 42R | DELETED | 16 | STRIP WIRE OR JACKET | | | | | | A 42R |

| CABLE W18 | | | | | | | | | |
|---|-------------------|--------------------|-------------|----------|----------|----------|----------|----------|----------|
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| 42Y | DELETED | | | | | | | | |
| 43 | E9 | 25M | | | | | | | |
| 44 | P1-A | 19N | 16 | | | | | | |
| 45 | DELETED | | | | | | | | |
| 45L | DELETED | | | | | | | | |
| 45R | DELETED | | | | | | | | |
| 45Y | DELETED | | | | | | | | |
| 46 | E11 | 25M | | | | | | | |
| 47 | P1-T | 19N | 16 | | | | | | |
| 48 | DELETED | | | | | | | | |
| 48L | DELETED | | | | | | | | |
| 48R | DELETED | | | | | | | | |
| 48Y | DELETED | | | | | | | | |
| 49 | E13 | 25M | | | | | | | |
| 50 | P1-F | 19N | 16 | | | | | | |
| 51 | DELETED | | | | | | | | |
| 51L | DELETED | | | | | | | | |
| 51R | DELETED | | | | | | | | |

| CABLE W18 | | | | | | | | | |
|---|-------------------|--------------------|-------------|----------|----------|----------|----------|----------|----------|
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| 23A | DELETED | | | | | | | | |
| 23L | DELETED | | | | | | | | |
| 23R | DELETED | | | | | | | | |
| 24 | DELETED | | | | | | | | |
| 24A | DELETED | | | | | | | | |
| 24L | DELETED | | | | | | | | |
| 24R | DELETED | | | | | | | | |
| 25 | DELETED | | | | | | | | |
| 25A | DELETED | | | | | | | | |
| 25L | DELETED | | | | | | | | |
| 25R | DELETED | | | | | | | | |
| 26 | P1-J | 19N | 16 | | | | | | |
| 27 | DELETED | | | | | | | | |
| 28 | P2-19 | 10N | 15 | | | | | | |
| 29 | DELETED | | | | | | | | |
| 30 | P1-T | 19N | 16 | | | | | | |
| 31 | E3 | 25M | | | | | | | |
| 32 | DELETED | | | | | | | | |

| CABLE W18 | | | | | | | | | |
|---|-------------------|--------------------|-------------|----------|----------|----------|----------|----------|----------|
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| 51Y | DELETED | | | | | | | | |
| 52 | E15 | 25M | | | | | | | |
| 53 | P1-E | 19N | 16 | | | | | | |
| 54 | DELETED | | | | | | | | |
| 54L | DELETED | | | | | | | | |
| 54R | DELETED | | | | | | | | |
| 54Y | DELETED | | | | | | | | |
| 55 | E17 | 25M | | | | | | | |
| 56 | P1-B | 19N | 16 | | | | | | |
| 57 | DELETED | | | | | | | | |
| 57L | DELETED | | | | | | | | |
| 57R | DELETED | | | | | | | | |
| 57Y | DELETED | | | | | | | | |
| 58 | E19 | 25M | | | | | | | |
| 59 | E3 | 25M | | | | | | | |
| 60 | E3 | 25M | | | | | | | |
| 61 | P2-9 | 10N | 15 | | | | | | |
| 62 | DELETED | | | | | | | | |

| CABLE W18 | | | | | | | | | |
|---|-------------------|--------------------|-------------|----------|----------|----------|----------|----------|----------|
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS | | | | | | | | | |
| CONDUCTOR | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| 33 | DELETED | | | | | | | | |
| 34 | P2-33 | 10N | 15 | | | | | | |
| 35 | P1-R | 19N | 16 | | | | | | |
| 36 | DELETED | | | | | | | | |
| 36L | DELETED | | | | | | | | |
| 36R | DELETED | | | | | | | | |
| 36Y | DELETED | | | | | | | | |
| 37 | E5 | 25M | | | | | | | |
| 38 | P1-O | 19N | 16 | | | | | | |
| 39 | DELETED | | | | | | | | |
| 39L | DELETED | | | | | | | | |
| 39R | DELETED | | | | | | | | |
| 39Y | DELETED | | | | | | | | |
| 40 | E7 | 25M | | | | | | | |
| 41 | P1-S | 19N | 16 | | | | | | |
| 42 | DELETED | | | | | | | | |
| 42L | DELETED | | | | | | | | |
| 42R | DELETED | | | | | | | | |

| | | | | | |
|-------------|-------------|---------|--|----------|----------|
| APPLICATION | | REVISED | | | |
| NEXT ASSY | USED ON | SYN | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 195385 12/28/64 | 12/28/64 | JJJ |
| | | B | CHANGE IN ACCORDANCE WITH CM 195507 7/28/64 | 7/28/64 | RJF |
| | | C | CHANGE IN ACCORDANCE WITH CM 195589 07/28/64 | 7/28/64 | JJJ |
| | | D | CHANGE IN ACCORDANCE WITH CM 195589 07/28/64 | 7/28/64 | JJJ |
| | | E | CHANGE IN ACCORDANCE WITH CM 195589 07/28/64 | 7/28/64 | JJJ |
| | | F | CHANGE IN ACCORDANCE WITH CM 195589 07/28/64 | 7/28/64 | JJJ |
| | | G | CHANGE IN ACCORDANCE WITH CM 195589 07/28/64 | 7/28/64 | JJJ |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 25663 DATE 1/16/64

| | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| SYN | | | | | | | | | | | | | | | | | | |
| DESCRIPTION | | | | | | | | | | | | | | | | | | |
| DATE | | | | | | | | | | | | | | | | | | |
| APPROVAL | | | | | | | | | | | | | | | | | | |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

DATE 1/16/64

CHECKED BY 1/16/64

APPROVED BY 1/16/64

APPROVAL 1/16/64

NASA APPROVAL 1/16/64

MIT APPROVAL 1/16/64

CONTRACT NAS 9-497

SCALE NONE

SHEET 1 OF 18

| G18 | | CABLE W18 | | F | | 1900974 | |
|---------|---|--|--|---------|---|---------------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019, CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | 1900974 | |
| | | SCALE: NONE | | REV LTR | F | SHEET 2 OF 18 | |

| G18 | | CABLE W18 | | F | | 1900974 | |
|---------|--|--|--|---------|---|---------------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR LETTER L R - WHITE WITH RED TRACER OR LETTER R | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 14, MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | | | | | |
| 19 | SERIALIZED PER ND1002023. | | | | | | |
| 20 | ITEM 16 FURNISHED WITH ITEM 1. | | | | | | |
| 21 | ITEM 17 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 17 AS REQUIRED TO FIT. | | | | | | |
| 22 | THE FOLLOWING MULTICONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER. AS TWISTED PAIRS, CONDUCTORS (A36 AND A39), (A42 AND A45), (A51 AND A54) AND (A48 AND A57). | | | | | | |
| 23 | SEE NOTES 10 AND 16. | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | 1900974 | |
| | | SCALE: NONE | | REV LTR | F | SHEET 3 OF 18 | |

| G18 | | CABLE W18 | | F | | 1900974 | |
|---|---------------|--|--|---------|---|---------------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE | | | | | | | |
| TOLERANCE | | | | | | | |
| JACKET, CUT WIRE OR CUT SHIELD | | | | | | | |
| WIRE OR CABLE | | | | | | | |
| STRIP JACKET WIRE CUT SHIELD | | | | | | | |
| UNDER 1 INCH | | | | | | | |
| 1 INCH TO 6 INCHES | | | | | | | |
| 6 INCHES TO 6 FEET | | | | | | | |
| OVER 6 FEET | | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | 1900974 | |
| | | SCALE: NONE | | REV LTR | F | SHEET 4 OF 18 | |

GIR

CARLF W18

G

1900974

| LIST OF MATERIALS | | | | |
|-------------------|------|------|-----|--|
| PENNA | NOTE | ITEM | QTY | DESCRIPTION |
| | 16 | 1 | 1 | MS3126F-20-415W (1897044-411) CONNECTOR PLUG |
| | 23 | 2 | 1 | 1010621- 2 CONNECTOR PLUG |
| | | 3 | 1 | 1900974-001 WIRE ND1002181 TYPE 2, CLASS 4, T2, 22AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY, 152 FT. TOTAL LENGTH. |
| | | 4 | 1 | 1900974-002 WIRE ND1002181 TYPE 1, CLASS 1, 22AWG 30 FT. TOTAL LENGTH. |
| | | 5 | 1 | 1900974-003 WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 88 FT. TOTAL LENGTH. |
| | 10 | 6 | 34 | 1010490-200 INSULATION-SLEEVING, ELEC |
| | 10 | 7 | 16 | 1000243-011 FERRULE-ELEC COND |
| | 10 | 8 | 16 | 1000242-009 FERRULE-ELEC COND |
| | 10 | 9 | 34 | 1016006-001 SPLICE REDUCER |
| | 10 | 10 | 1 | 1016128-011 BAND-IDENTIFICATION |
| | 10 | 11 | 32 | 1010490-198 INSULATION-SLEEVING ELEC |
| | | 12 | 1 | 1900974-004 ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.00 IN. DIA. 38 FT. TOTAL LENGTH |
| | 10 | 13 | 2 | 1016128-041 BAND IDENTIFICATION |
| | | 14 | AR | MIL-T-713 LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| | 10 | 15 | 38 | 1010464- 1 CONTACTS, PINS |

| | | |
|---|-----------|---------|
| MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 |
| SCALE: NONE | REV LTR | G |
| SHEET 5 OF 18 | | |

| GIR | | CABLE WIR | | F | | 1900974 | |
|-----------------------------|------|-----------|-------------|--|--|---------|--|
| PENNANT * LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 20 | 16 | | | CONTACT SOCKETS | | | |
| 21 | 17 | AR | 1897147-106 | 108 AND 112, CABLE CLAMP SLEEVE | | | |
| | 18 | | | DELETED | | | |
| | | | | DELETED | | | |
| | | | | DELETED | | | |
| | 19 | | 1900974-006 | WIRE MD1002181 TYPE 2, CLASS 4, 20AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY) 456 FEET TOTAL LENGTH | | | |

| | | | | |
|--|---------|------------------|---------------|--|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900974 | |
| SCALE - NONE | REV LTR | F | SHEET 6 OF 18 | |

| CONDUCTOR | | FROM | | TO | |
|-------------------|-----|----------------------|---------------|------------------|--------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC | |
| ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | | DELETED | | | |
| A 34 | 4 | P2-33 | 10N 15 | P2-34 | 10N 15 |
| A 35 | 9 | P1-R* | 10N 16 | E4 | 25N |
| A 36 | | DELETED | | | |
| A 36L | | DELETED | | | |
| A 36R | | DELETED | | | |
| A 36Y | | DELETED | | | |
| A 37 | 4 | E5 | 25N | P2-32 | 10N 15 |
| A 38 | 5 | P1-O* | 10N 16 | E6 | 25N |
| A 39 | | DELETED | | | |
| A 39L | | DELETED | | | |
| A 39R | | DELETED | | | |
| A 39Y | | DELETED | | | |
| A 40 | 4 | E7 | 25N | P2-24 | 10N 15 |
| A 41 | 5 | P1-S* | 10N 16 | E8 | 25N |
| A 42 | | DELETED | | | |
| A 42L | | DELETED | | | |
| A 42R | | DELETED | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

NAMED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900974

SCALE - NONE

REV LTR F

SHEET 11 OF 18

| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|----------|---|----------------------|---------------|----|-------------|----------|--------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 | ITEM NO. | NO. |
| A 42Y | | | DELETED | | | | | |
| A 43 | 4 | | E9 | 25M | | | P2-31 | 10M 15 |
| A 44 | 5 | | P1-A | 19M | 14 | | E10 | 25M |
| A 45 | | | DELETED | | | | | |
| A 45L | | | DELETED | | | | | |
| A 45R | | | DELETED | | | | | |
| A 45Y | | | DELETED | | | | | |
| A 46 | 4 | | E11 | 25M | | | P2-23 | 10M 15 |
| A 47 | 5 | | P1-T* | 19M | 14 | | E12 | 25M |
| A 48 | | | DELETED | | | | | |
| A 48L | | | DELETED | | | | | |
| A 48R | | | DELETED | | | | | |
| A 48Y | | | DELETED | | | | | |
| A 49 | 4 | | E13 | 25M | | | P2-35 | 10M 15 |
| A 50 | 5 | | P1-F* | 19M | 16 | | E14 | 25M |
| A 51 | | | DELETED | | | | | |
| A 51L | | | DELETED | | | | | |
| A 51R | | | DELETED | | | | | |

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|--|--|--|
| <p style="text-align: center; margin: 0;">MANNED SPACECRAFT CENTER HOUSTON TEXAS</p> | <p>SIZE</p> <p style="font-size: 2em; text-align: center;">A</p> | <p style="text-align: right; font-weight: bold;">1900974</p> |
| SCALE - NONE | REV LTR | F |
| SHEET | | 12 OF 18 |

G18 CABLE W18 G 1900974

| CONDUCTOR INDIVIDUAL LENGTH NUMBER | ITEM NO. | FROM | | TERMINATION SPEC. NO. | TO | | TERMINATION SPEC. NO. |
|--|----------|---|----------|---|---|----------|--------------------------|
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | |
| A 51V | | DELETED | | | | | |
| A 52 | 4 | E15 | 25M | | P2-36 | 10M | 15 |
| A 53 | 5 | P1-E9 | 19M | 16 | E16 | 25M | |
| A 54 | | DELETED | | | | | |
| A 54L | | DELETED | | | | | |
| A 54R | | DELETED | | | | | |
| A 54Y | | DELETED | | | | | |
| A 55 | 4 | E17 | 25M | | P2-28 | 10M | 15 |
| A 56 | 5 | P1-B | 19M | 16 | E18 | 25M | |
| A 57 | | DELETED | | | | | |
| A 57L | | DELETED | | | | | |
| A 57R | | DELETED | | | | | |
| A 57Y | | DELETED | | | | | |
| A 58 | 4 | E19 | 25M | | P2-27 | 10M | 15 |
| A 59 | 4 | E3 | 25M | | P2-18 | 10M | 15 |
| A 60 | 4 | E3 | 25M | | E23 | 25M | |
| A 61 | 4 | P2-9 | 10M | 15 | P2-10 | 10M | 15 |
| A 62 | 19 | | 330 | 300 | A 11 | 7A | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | | | SIZE A 1900974 | | | |
| | | | | SCALE-NONE REV LTR G SHEET 13 OF 18 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

G18 CABLE W18 F 1900974

| CONDUCTOR INDIVIDUAL LENGTH NUMBER | ITEM NO. | FROM | | TERMINATION SPEC. NO. | TO | | TERMINATION SPEC. NO. |
|--|----------|---|----------|---|---|----------|--------------------------|
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | |
| A 62B | 4 | SHLD A62 | 25 | | E20 | 25 | |
| A 62U | | E4 | 25 | | E5 | 25 | |
| A 62R | | E6 | 25 | | E7 | 25 | |
| A 63 | 19 | | 330 | 300 | A 11 | 7A | |
| A 63B | 4 | SHLD A63 | 25 | | E20 | 25 | |
| A 63L | | E4 | 25 | | E5 | 25 | |
| A 63R | | E6 | 25 | | E7 | 25 | |
| A 64 | 19 | | 330 | 300 | A 11 | 7A | |
| A 64B | 4 | SHLD A64 | 25 | | E20 | 25 | |
| A 64L | | E4 | 25 | | E5 | 25 | |
| A 64R | | E6 | 25 | | E7 | 25 | |
| A 65 | 19 | | 330 | 300 | A 11 | 7A | |
| A 65B | 4 | SHLD A65 | 25 | | E20 | 25 | |
| A 65L | | E8 | 25M | | E9 | 25M | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | | | SIZE A 1900974 | | | |
| | | | | SCALE-NONE REV LTR F SHEET 14 OF 18 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

G18 CABLE W18 F 1900974

| CONDUCTOR INDIVIDUAL LENGTH NUMBER | ITEM NO. | FROM | | TERMINATION SPEC. NO. | TO | | TERMINATION SPEC. NO. |
|--|----------|---|----------|---|---|----------|--------------------------|
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | |
| A 65B | | E10 | 25M | | E11 | 25M | |
| A 66 | 19 | | 380 | 350 | A 11 | 7A | |
| A 66B | 4 | SHLD A66 | 25M | | E21 | 25M | |
| A 66L | | E8 | 25M | | E9 | 25M | |
| A 66R | | E10 | 25M | | E11 | 25M | |
| A 67 | 19 | | 380 | 350 | A 11 | 7A | |
| A 67B | 4 | SHLD A67 | 25M | | E21 | 25M | |
| A 67L | | E8 | 25M | | E9 | 25M | |
| A 67R | | E10 | 25M | | E11 | 25M | |
| A 68 | 19 | | 380 | 350 | A 11 | 7A | |
| A 68B | 4 | SHLD A68 | 25M | | E21 | 25M | |
| A 68L | | E14 | 25M | | E15 | 25M | |
| A 68R | | E16 | 25M | | E17 | 25M | |
| A 69 | 19 | | 430 | 400 | A 11 | 7A | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | | | SIZE A 1900974 | | | |
| | | | | SCALE-NONE REV LTR F SHEET 15 OF 18 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

G18 CABLE W18 F 1900974

| CONDUCTOR INDIVIDUAL LENGTH NUMBER | ITEM NO. | FROM | | TERMINATION SPEC. NO. | TO | | TERMINATION SPEC. NO. |
|--|----------|---|----------|---|---|----------|--------------------------|
| | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | ITEM NO. | |
| A 69B | 4 | SHLD A69 | 25M | | E21 | 25M | |
| A 69L | | E14 | 25M | | E15 | 25M | |
| A 69R | | E16 | 25M | | E17 | 25M | |
| A 70 | 19 | | 430 | 400 | A 11 | 7A | |
| A 70B | 4 | SHLD A70 | 25M | | E22 | 25M | |
| A 70L | | E14 | 25M | | E15 | 25M | |
| A 70R | | E16 | 25M | | E17 | 25M | |
| A 71 | 19 | | 430 | 400 | A 11 | 7A | |
| A 71B | 4 | SHLD A71 | 25M | | E22 | 25M | |
| A 71L | | E12 | 25M | | E13 | 25M | |
| A 71R | | E18 | 25M | | E19 | 25M | |
| A 72 | 19 | | 430 | 400 | A 11 | 7A | |
| A 72B | 4 | SHLD A72 | 25M | | E22 | 25M | |
| A 72L | | E12 | 25M | | E13 | 25M | |
| A 72R | | E18 | 25M | | E19 | 25M | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | | | SIZE A 1900974 | | | |
| | | | | SCALE-NONE REV LTR F SHEET 16 OF 18 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| CONDUCTOR | | | FROM | | TO | |
|--------------------|----|----------|--------------------|-----|--------------------|-----|
| INDIVIDUAL LENGTH | | | TERMINATION | | TERMINATION | |
| ITEM NO. | | | SPEC | | SPEC | |
| CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| CIRCUIT POINT | | | CIRCUIT POINT | | CIRCUIT POINT | |
| A 73 | 19 | | 480 | 450 | A 11 | 7A |
| A 73B | 4 | SHLD A73 | 25N | | E22 | 25N |
| A 73L | | E12 | 25N | | E13 | 25N |
| A 73R | | E18 | 25N | | E19 | 25N |
| A 74 | 5 | P1-V | 19N | | E23 | 25N |
| A 75 | 4 | E20 | 25N | | E21 | 25N |
| A 76 | 4 | E21 | 25N | | E22 | 25N |
| A 77 | 4 | E22 | 25N | | E23 | 25N |
| A 78 | 4 | E23 | 25N | | P2-25 | 10N |

1. > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

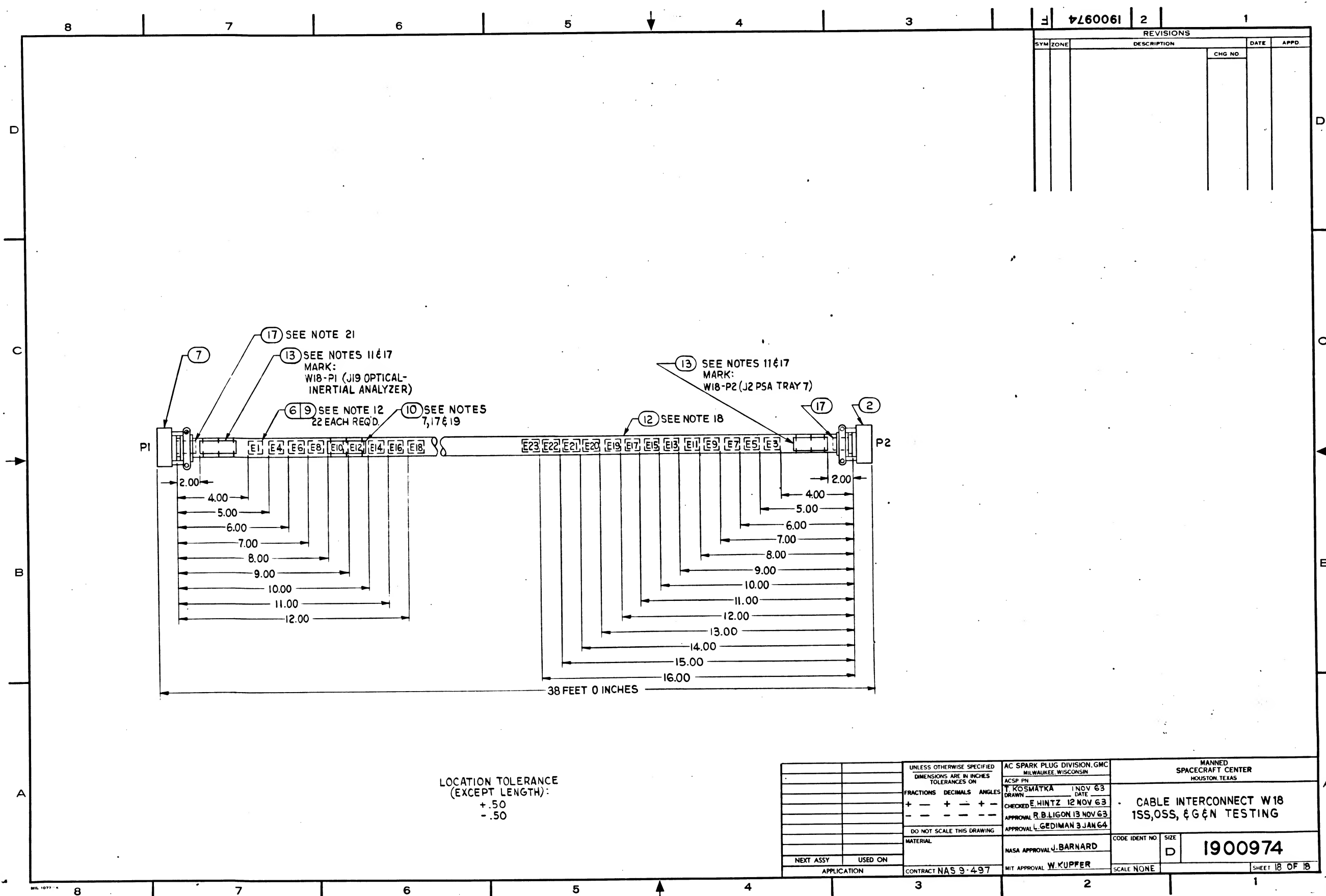
1906974

SCALE - NONE

REV LTR

F

SHEET 17 OF 18



| | | | | | |
|-------------|-------------|-----------|---|--------|----------|
| APPLICATION | | REVISIONS | | | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 193335 12/26/67 | FEB 68 | J J J |
| | | B | CHANGE IN ACCORDANCE WITH CM 193307 11/15/67 | MAR 68 | R J F |
| | | C | CHANGE IN ACCORDANCE WITH CM 19589 07/11/67 | APR 68 | J W P |
| | | D | CHANGE IN ACCORDANCE WITH CM 196039 08/22/67 | MAY 68 | H S |
| | | E | CHANGE IN ACCORDANCE WITH CM 195920 | JUN 68 | J J J |
| | | F | CHANGE IN ACCORDANCE WITH CM 198677 12/22/67 | JUL 68 | J J J |
| | | G | CHANGE IN ACCORDANCE WITH CM 198928 | AUG 68 | J J J |
| | | H | CHANGE IN ACCORDANCE WITH CM 302656 | SEP 68 | J W P |
| | | | REVISED PER TDR 14409 | | JAS |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1/16/64

| | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| SHEET | | | | | | | | | | | | | | | | | | |
| REV STATUS | H | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F |
| OF SHEETS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

DATE 1/16/64

CHECKED BY 1/16/64

APPROVAL 1/16/64

NASA APPROVAL 1/16/64

MIT APPROVAL 1/16/64

CONTRACT NAS 9-497

SCALE NONE

CODE IDENT NO. A

SIZE 1900974

REV H

SHEET 1 OF 18

| GIB | | CABLE W18 | | F | | 1900974 | |
|---------|---|---|--|-----------|--|---------------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH, COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK. PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | |
| | | SCALE-NONE | | REV LTR F | | SHEET 2 OF 18 | |

| GIB | | CABLE W18 | | F | | 1900974 | |
|---------|---|---|--|-----------|--|---------------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR LETTER L R - WHITE WITH RED TRACER OR LETTER R | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 14. MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | ITEM 16 FURNISHED WITH ITEM 1. | | | | | | |
| 21 | ITEM 17 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 17 AS REQUIRED TO FIT. | | | | | | |
| 22 | THE FOLLOWING MULTICONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER, AS TWISTED PAIRS: CONDUCTORS (A36 AND A39), (A42 AND A45), (A51 AND A54) AND (A48 AND A57) | | | | | | |
| 23 | SEE NOTES 10 AND 16 | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | |
| | | SCALE-NONE | | REV LTR F | | SHEET 3 OF 18 | |

| GIB | | CABLE W18 | | F | | 1900974 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|---|--------------|-----------|------------|---------------|--|--|-----------|--|--|--|--|--|---------------|------|--------------|------|------------|--|--------------|-----------|-----------|-----------|-----------|-----------|--|--------------------|-----------|-----------|-----------|-----------|-----------|--|--------------------|-----------|--|-----------|-----------|-----------|--|-------------|-----------|--|--|--|--|--|
| PENNANT | | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.</th> <th colspan="6">TOLERANCE</th> </tr> <tr> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> <th></th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td></td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td></td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td></td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | OVER 6 FEET | +2.00-.00 | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | | REV LTR F | | SHEET 4 OF 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GIB | | CABLE W18 | | H X | | 1900974 | |
|---------|------|---|-------------------------------|--|--|---------------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 16 | 1 | 1 | MS3126F-20-41SW (1897044-411) | CONNECTOR PLUG | | | |
| 23 | 2 | 1 | 1901350-2 | CONNECTOR PLUG | | | |
| | 3 | 1 | 1900974-001 | WIRE ND1002181 TYPE 2, CLASS 4, T2, 22AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY, 152 FT. TOTAL LENGTH. | | | |
| | 4 | 1 | 1900974-002 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG 30 FT., TOTAL LENGTH. | | | |
| | 5 | 1 | 1900974-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 88 FT. TOTAL LENGTH. | | | |
| 10 | 6 | 34 | 1010490-200 | INSULATION-SLEEVING, ELEC | | | |
| 10 | 7 | 16 | 1000243-011 | FERRULE-ELEC COND | | | |
| 10 | 8 | 16 | 1000242-009 | FERRULE-ELEC COND | | | |
| 10 | 9 | 34 | 1016006-001 | SPLICE REDUCER | | | |
| 10 | 10 | 1 | 1016128-011 | BAND-IDENTIFICATION | | | |
| 10 | 11 | 32 | 1010490-198 | INSULATION-SLEEVING ELEC | | | |
| | 12 | 1 | 1900974-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.00 IN. DIA. 38 FT. TOTAL LENGTH | | | |
| 10 | 13 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| | 14 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 15 | 38 | 1010464-1 | CONTACTS, PINS | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | |
| | | SCALE-NONE | | REV LTR H X | | SHEET 5 OF 18 | |

| | | | | | |
|-------------------|------|--|--------------|--|---------------|
| G18 | | CABLE W18 | | F | 1900974 |
| LIST OF MATERIALS | | | | | |
| PENNANT | NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 20 | 16 | | CONTACT SOCKETS | |
| | 21 | 17 AR | 1897147-106, | 108 AND 112. CABLE CLAMP SLEEVE | |
| | | 18 | | DELETED DELETED DELETED | |
| | 19 | | 1900974-006 | WIRE ND1002181 TYPE 2+ CLASS 4+ 20AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY) 456 FEET TOTAL LENGTH | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900974 |
| SCALE-NONE | | REV LTR | | F | SHEET 6 OF 18 |

| G18 | | CABLE W18 | | | | | | | | | | F | | 1900974 | | | |
|--|----------|----------------------|---------------|-------------|-------|--------------------|----------------------|---------------|----------|---|-----|----------------------|---------------|----------|-------|---------------|--|
| CONDUCTOR | | | | FROM | | | | TO | | | | TERMINATION | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | NO. | |
| A | 1 | 3 | | 230 | 200 | 7 8 5 | | | | | | 230 | 200 | A 11 | 7A | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A | 1A | 4 | SHLD A1 | 25N | | | E1 | 25N | | | | | | | | | |
| A | 1L | | P1-C* | 19N | 16 | | P2-20 | 10N | 15 | | | | | | | | |
| A | 1R | | P1-B* | 19N | 16 | | P2-14 | 10N | 15 | | | | | | | | |
| A | 2 | | DELETED | | | | | | | | | | | | | | |
| A | 3 | | DELETED | | | | | | | | | | | | | | |
| A | 4 | | DELETED | | | | | | | | | | | | | | |
| A | 5 | | DELETED | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | |
| A | 5A | | DELETED | | | | | | | | | | | | | | |
| A | 5L | | DELETED | | | | | | | | | | | | | | |
| A | 5R | | DELETED | | | | | | | | | | | | | | |
| A | 6 | 3 | | 230 | 200 | 7 8 5 | | | | | | 230 | 200 | A 11 | 7A | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A | 6A | 4 | SHLD A6 | 25N | | | E1 | 25N | | | | | | | | | |
| A | 6L | | P1-H* | 19N | 16 | | P2-21 | 10N | 15 | | | | | | | | |
| A | 6R | | P1-G* | 19N | 16 | | P2-15 | 10N | 15 | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | | A | | 1900974 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE-NONE | | REV LTR | | F | | SHEET 7 OF 18 | |

| G18 | | CABLE W18 | | | | F | | 1900974 | | | |
|--|----------|----------------------|---------------|----------------------|---------------|---|---------------|----------------------|---------------|--|--|
| CONDUCTOR | | | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 7 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A | | |
| | | | | | A 11 | | | | | | |
| A 7A | 4 | SHLD A7 | 25N | | | E1 | 25N | | | | |
| A 7L | | P1-P* | 19N | 16 | | P2- 5 | 10N | 15 | | | |
| A 7R | | P1-N* | 19N | 16 | | P2- 6 | 10N | 15 | | | |
| A 8 | | DELETED | | | | | | | | | |
| A 9 | | DELETED | | | | | | | | | |
| | | DELETED | | | | | | | | | |
| A 9A | | DELETED | | | | | | | | | |
| A 9L | | DELETED | | | | | | | | | |
| A 9R | | DELETED | | | | | | | | | |
| A 10 | | DELETED | | | | | | | | | |
| A 11 | | DELETED | | | | | | | | | |
| | | DELETED | | | | | | | | | |
| A 11A | | DELETED | | | | | | | | | |
| A 11L | | DELETED | | | | | | | | | |
| A 11R | | DELETED | | | | | | | | | |
| A 12 | | DELETED | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900974 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE | | REV LTR F | | | |
| | | | | | | | | SHEET 8 OF 18 | | | |

| G18 | | CABLE W18 | | | | | | | | | | F | | 1900974 | | | | | |
|--|---|-----------|--|----------------------|-----|-----|----|-------------|---|---|--|----------------------|-----|---------|-----|-------------|----|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | |
| ITEM NO. 1 | | | | STRIP WIRE OR JACKET | | | | SPEC 1 | | | | STRIP WIRE OR JACKET | | | | SPEC 1 | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | ITEM NO. | | | | CIRCUIT POINT | | | | ITEM NO. | | | |
| A 13 | | | | | | | | | | | | | | | | | | | |
| A 14 | | | | | | | | | | | | | | | | | | | |
| A 15 | | | | | | | | | | | | | | | | | | | |
| A 16 | | | | | | | | | | | | | | | | | | | |
| A 17 | 3 | | | | 280 | 250 | 7 | 8 | 5 | | | | | 280 | 250 | A 11 | 7A | | |
| | | | | | | | | | | A 11 | | | | | | | | | |
| A 17A | 4 | | | SHLD A17 | 25N | | | | | | | E1 | 25N | | | | | | |
| A 17L | | | | P1-A* | 19N | | 16 | | | | | P2- 7 | 10N | | 15 | | | | |
| A 17R | | | | P1-Z | 19N | | 16 | | | | | P2-13 | 10N | | 15 | | | | |
| A 18 | | | | DELETED | | | | | | | | | | | | | | | |
| A 19 | | | | DELETED | | | | | | | | | | | | | | | |
| A 20 | | | | DELETED | | | | | | | | | | | | | | | |
| A 21 | | | | DELETED | | | | | | | | | | | | | | | |
| A 22 | | | | DELETED | | | | | | | | | | | | | | | |
| A 22A | | | | DELETED | | | | | | | | | | | | | | | |
| A 22L | | | | DELETED | | | | | | | | | | | | | | | |
| A 22R | | | | DELETED | | | | | | | | | | | | | | | |
| A 23 | | | | DELETED | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | 1900974 | | | | | | | | | |
| SCALE-NONE | | | | | | | | | | REV LTR F | | | | | | | | | |
| SHEET 9 OF 18 | | | | | | | | | | | | | | | | | | | |

| GIB CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|----------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 23A | | DELETED | | | | | | | |
| A 23L | | DELETED | | | | | | | |
| A 23R | | DELETED | | | | | | | |
| A 24 | | DELETED | | | | | | | |
| A 24A | | DELETED | | | | | | | |
| A 24L | | DELETED | | | | | | | |
| A 24R | | DELETED | | | | | | | |
| A 25 | | DELETED | | | | | | | |
| A 25A | | DELETED | | | | | | | |
| A 25L | | DELETED | | | | | | | |
| A 25R | | DELETED | | | | | | | |
| A 26 | 4 | P1-J* | 19N | 16 | | E1 | 25N | | |
| A 27 | | DELETED | | | | | | | |
| A 28 | 4 | P2-19 | 10N | 15 | | P2-26 | 10N | 15 | |
| A 29 | | DELETED | | | | | | | |
| A 30 | 5 | P1-T | 19N | 16 | | E3 | 25N | | |
| A 31 | 4 | E3 | 25N | | | P2-17 | 10N | 15 | |
| A 32 | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE-NONE | | | | | | REV LTR F | | SHEET 10 OF 18 | |

| GIB CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|----------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | | DELETED | | | | | | | |
| A 34 | 4 | P2-33 | 10N | 15 | | P2-34 | 10N | 15 | |
| A 35 | 5 | P1-R* | 19N | 16 | | E4 | 25N | | |
| A 36 | | DELETED | | | | | | | |
| A 36L | | DELETED | | | | | | | |
| A 36R | | DELETED | | | | | | | |
| A 36Y | | DELETED | | | | | | | |
| A 37 | 4 | E5 | 25N | | | P2-32 | 10N | 15 | |
| A 38 | 5 | P1-Q* | 19N | 16 | | E6 | 25N | | |
| A 39 | | DELETED | | | | | | | |
| A 39L | | DELETED | | | | | | | |
| A 39R | | DELETED | | | | | | | |
| A 39Y | | DELETED | | | | | | | |
| A 40 | 4 | E7 | 25N | | | P2-24 | 10N | 15 | |
| A 41 | 5 | P1-S* | 19N | 16 | | E8 | 25N | | |
| A 42 | | DELETED | | | | | | | |
| A 42L | | DELETED | | | | | | | |
| A 42R | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE-NONE | | | | | | REV LTR F | | SHEET 11 OF 18 | |

| GIB CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|----------------|-----|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 42Y | | DELETED | | | | | | | |
| A 43 | 4 | E9 | 25N | | | P2-31 | 10N | 15 | |
| A 44 | 5 | P1-A | 19N | 16 | | E10 | 25N | | |
| A 45 | | DELETED | | | | | | | |
| A 45L | | DELETED | | | | | | | |
| A 45R | | DELETED | | | | | | | |
| A 45Y | | DELETED | | | | | | | |
| A 46 | 4 | E11 | 25N | | | P2-23 | 10N | 15 | |
| A 47 | 5 | P1-T* | 19N | 16 | | E12 | 25N | | |
| A 48 | | DELETED | | | | | | | |
| A 48L | | DELETED | | | | | | | |
| A 48R | | DELETED | | | | | | | |
| A 48Y | | DELETED | | | | | | | |
| A 49 | 4 | E13 | 25N | | | P2-35 | 10N | 15 | |
| A 50 | 5 | P1-F* | 19N | 16 | | E14 | 25N | | |
| A 51 | | DELETED | | | | | | | |
| A 51L | | DELETED | | | | | | | |
| A 51R | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE-NONE | | | | | | REV LTR F | | SHEET 12 OF 18 | |

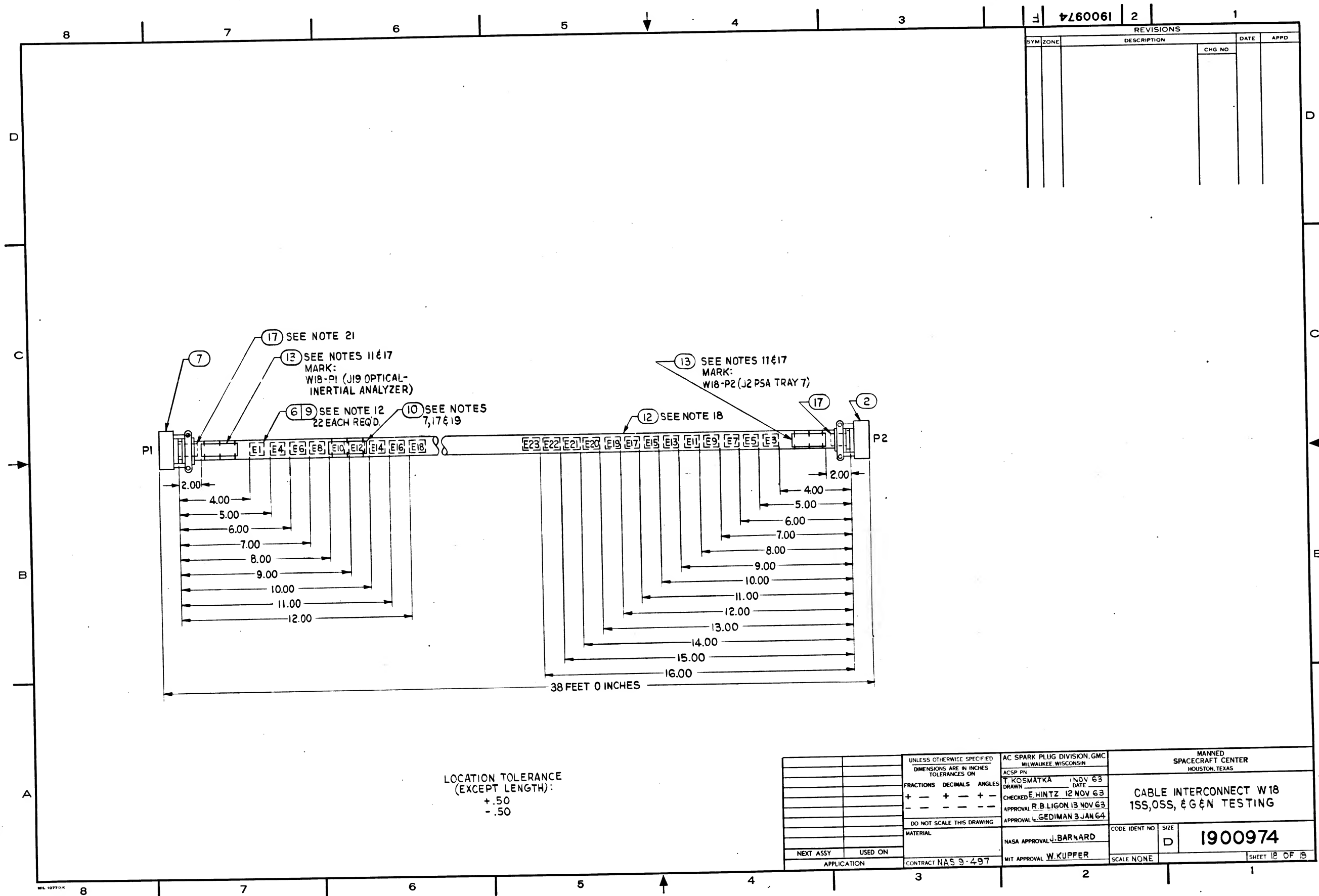
| GIB CABLE W18 G 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|---------|---|---------------|----------------|-------|
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 51Y | | DELETED | | | | | | | |
| A 52 | 4 | E15 | 25N | | | P2-36 | 10N | 15 | |
| A 53 | 5 | P1-E* | 19N | 16 | | E16 | 25N | | |
| A 54 | | DELETED | | | | | | | |
| A 54L | | DELETED | | | | | | | |
| A 54R | | DELETED | | | | | | | |
| A 54Y | | DELETED | | | | | | | |
| A 55 | 4 | E17 | 25N | | | P2-28 | 10N | 15 | |
| A 56 | 5 | P1-B | 19N | 16 | | E18 | 25N | | |
| A 57 | | DELETED | | | | | | | |
| A 57L | | DELETED | | | | | | | |
| A 57R | | DELETED | | | | | | | |
| A 57Y | | DELETED | | | | | | | |
| A 58 | 4 | E19 | 25N | | | P2-27 | 10N | 15 | |
| A 59 | 4 | E3 | 25N | | | P2-18 | 10N | 15 | |
| A 60 | 4 | E3 | 25N | | | E23 | 25N | | |
| A 61 | 4 | P2-9 | 10N | 15 | | P2-10 | 10N | 15 | |
| A 62 | 19 | | 330 | 300 | A 11 7A | | 330 | 300 | 7 8 5 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE-NONE | | | | | | REV LTR G | | SHEET 13 OF 18 | |

| G18 CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|----------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 62B | 4 | SHLD A62 | 25 | | | E20 | 25 | A 11 | |
| A 62L | | E4 | 25 | | | E5 | 25 | | |
| A 62R | | E6 | 25 | | | E7 | 25 | | |
| A 63 | 19 | | 330 300 | A 11 | 7A | | 330 300 | 7 8 5 | |
| A 63B | 4 | SHLD A63 | 25 | | | E20 | 25 | | |
| A 63L | | E4 | 25 | | | E5 | 25 | | |
| A 63R | | E6 | 25 | | | E7 | 25 | | |
| A 64 | 19 | | 330 300 | A 11 | 7A | | 330 300 | 7 8 5 | |
| A 64B | 4 | SHLD A64 | 25 | | | E20 | 25 | | |
| A 64L | | E4 | 25 | | | E5 | 25 | | |
| A 64R | | E6 | 25 | | | E7 | 25 | | |
| A 65 | 19 | | 330 300 | A 11 | 7A | | 330 300 | 7 8 5 | |
| A 65B | 4 | SHLD A65 | 25 | | | E20 | 25 | | |
| A 65L | | E8 | 25N | | | E9 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE - NONE | | | | | | REV LTR | F | SHEET 14 OF 18 | |

| G18 CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|----------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 65R | | E10 | 25N | | | E11 | 25N | | |
| A 66 | 19 | | 380 350 | A 11 | 7A | | 380 350 | 7 8 5 | |
| A 66B | 4 | SHLD A66 | 25N | | | E21 | 25N | | |
| A 66L | | E8 | 25N | | | E9 | 25N | | |
| A 66R | | E10 | 25N | | | E11 | 25N | | |
| A 67 | 19 | | 380 350 | A 11 | 7A | | 380 350 | 7 8 5 | |
| A 67B | 4 | SHLD A67 | 25N | | | E21 | 25N | | |
| A 67L | | E8 | 25N | | | E9 | 25N | | |
| A 67R | | E10 | 25N | | | E11 | 25N | | |
| A 68 | 19 | | 380 350 | A 11 | 7A | | 380 350 | 7 8 5 | |
| A 68B | 4 | SHLD A68 | 25N | | | E21 | 25N | | |
| A 68L | | E14 | 25N | | | E15 | 25N | | |
| A 68R | | E16 | 25N | | | E17 | 25N | | |
| A 69 | 19 | | 430 400 | A 11 | 7A | | 430 400 | 7 8 5 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE - NONE | | | | | | REV LTR | F | SHEET 15 OF 18 | |

| G18 CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|----------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 69B | 4 | SHLD A69 | 25N | | | E21 | 25N | | |
| A 69L | | E14 | 25N | | | E15 | 25N | | |
| A 69R | | E16 | 25N | | | E17 | 25N | | |
| A 70 | 19 | | 430 400 | A 11 | 7A | | 430 400 | 7 8 5 | |
| A 70B | 4 | SHLD A70 | 25N | | | E22 | 25N | | |
| A 70L | | E14 | 25N | | | E15 | 25N | | |
| A 70R | | E16 | 25N | | | E17 | 25N | | |
| A 71 | 19 | | 430 400 | A 11 | 7A | | 430 400 | 7 8 5 | |
| A 71B | 4 | SHLD A71 | 25N | | | E22 | 25N | | |
| A 71L | | E12 | 25N | | | E13 | 25N | | |
| A 71R | | E18 | 25N | | | E19 | 25N | | |
| A 72 | 19 | | 480 450 | A 11 | 7A | | 480 400 | 7 8 5 | |
| A 72B | 4 | SHLD A72 | 25N | | | E22 | 25N | | |
| A 72L | | E12 | 25N | | | E13 | 25N | | |
| A 72R | | E18 | 25N | | | E19 | 25N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE - NONE | | | | | | REV LTR | F | SHEET 16 OF 18 | |

| G18 CABLE W18 F 1900974 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|----------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 73 | 19 | | 480 450 | A 11 | 7A | | 480 450 | 7 8 5 | |
| A 73B | 4 | SHLD A73 | 25N | | | E22 | 25N | | |
| A 73L | | E12 | 25N | | | E13 | 25N | | |
| A 73R | | E18 | 25N | | | E19 | 25N | | |
| A 74 | 5 | P1-V | 19N | | | E23 | 25N | | |
| A 75 | 4 | E20 | 25N | | | E21 | 25N | | |
| A 76 | 4 | E21 | 25N | | | E22 | 25N | | |
| A 77 | 4 | E22 | 25N | | | E23 | 25N | | |
| A 78 | 4 | E23 | 25N | | | P2-25 | 10N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 | |
| SCALE - NONE | | | | | | REV LTR | F | SHEET 17 OF 18 | |



| | | | | | |
|--|-------------|----------------------------------|--|---------------|----------|
| APPLICATION | | REVISIONS | | | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 193355 10/26/64 | FEB 64 | J J J |
| | | B | CHANGE IN ACCORDANCE WITH CM 195507 7/25/64 | 3 APR 64 | R J F |
| | | C | CHANGE IN ACCORDANCE WITH CM 195890 11/20/64 | 3 APR 64 | J W P |
| | | D | CHANGE IN ACCORDANCE WITH CM 196039 09/20/64 | 2 APR 64 | H S |
| | | E | CHANGE IN ACCORDANCE WITH CM 195920 | 21 MAY 64 | J J J |
| | | F | REVISED PER TDR R 09709 | 27 JUL 64 | J J J |
| | | G | CHANGE IN ACCORDANCE WITH CM 195928 | 30 JUL 64 | J J J |
| | | H | CHANGE IN ACCORDANCE WITH CM 302656 | 14 SEP 64 | J W P |
| | | J | REVISED PER TDR / 4409 | 25 JAN 65 | J J J |
| | | | REVISED & UPGRADED TO CLASS A PER TDR 15613 | 25 JAN 65 | J J J |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| ACSP PN | | MANNED | | | |
| DRAWN <i>[Signature]</i> DATE 11/27/63 | | CABLE INTERCONNECT W18 | | | |
| CHECKED <i>[Signature]</i> DATE 12/11/63 | | 1SS, OSS & G & N TESTING | | | |
| APPROVAL <i>[Signature]</i> DATE 12/11/63 | | | | | |
| NASA APPROVAL <i>[Signature]</i> DATE 1/13/64 | | | | | |
| MIT APPROVAL <i>[Signature]</i> DATE 1/13/64 | | | | | |
| CONTRACT NAS 9-497 | | CODE IDENT NO. | SIZE | REV | |
| | | | A | 1900974 | |
| | | SCALE NONE | | SHEET 1 OF 15 | |

| | | | |
|---|---|-----------|---------------|
| 618 | CABLE W18 | J | 1900974 |
| PENNANT GENERAL NOTES | | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TITLED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR Y IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900974 |
| SCALE-NONE | | REV LTR J | SHEET 2 OF 18 |

| | | | |
|---|---|-----------|---------------|
| 618 | CABLE W18 | J | 1900974 |
| PENNANT GENERAL NOTES | | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR LETTER L R - WHITE WITH RED TRACER OR LETTER R | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 14, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | ITEM 16 FURNISHED WITH ITEM 1. | | |
| 21 | ITEM 17 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 17 AS REQUIRED TO FIT. | | |
| 22 | THE FOLLOWING MULTICONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER. AS TWISTED PAIRS, CONDUCTORS (A36 AND A39), (A42 AND A45), (A51 AND A54) AND (A48 AND A57) | | |
| 23 | SEE NOTES 10 AND 14 | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900974 |
| SCALE-NONE | | REV LTR J | SHEET 3 OF 18 |

| | | | |
|--|-----------|-----------|---------------|
| 618 | CABLE W18 | J | 1900974 |
| PENNANT GENERAL NOTES | | | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | |
| OVER 6 FEET +2.00-.00 | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900974 |
| SCALE-NONE | | REV LTR J | SHEET 4 OF 18 |

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|---|-----------|-------------------------------|--|
| 618 | CABLE W18 | J | 1900974 |
| PENNANT LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 16 | 1 1 | MS3126F-20-41SW (1897044-411) | CONNECTOR PLUG |
| 23 | 2 1 | 1902030- 2 | CONNECTOR PLUG |
| | 3 1 | 1900974-001 | WIRE ND1002181 TYPE 2, CLASS 4, T2, 22AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY, 152 FT. TOTAL LENGTH. |
| | 4 1 | 1900974-002 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG 30 FT. TOTAL LENGTH. |
| | 5 1 | 1900974-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 88 FT. TOTAL LENGTH. |
| 10 | 6 34 | 1010490-200 | INSULATION-SLEEVING, ELEC |
| 10 | 7 16 | 1000243-011 | FERRULE-ELEC COND |
| 10 | 8 16 | 1000242-009 | FERRULE-ELEC COND |
| 10 | 9 34 | 1016006-001 | SPLICE REDUCER |
| 10 | 10 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 11 32 | 1010490-198 | INSULATION-SLEEVING ELEC |
| | 12 1 | 1900974-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.00 IN. DIA. 38 FT. TOTAL LENGTH |
| 10 | 13 2 | 1016128-041 | BAND IDENTIFICATION |
| | 14 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 15 38 | 1010738- 5 | CONTACTS, PINS |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900974 |
| SCALE-NONE | | REV LTR J | SHEET 5 OF 18 |

| | | | |
|---|-----------|-------------|--|
| 618 | CABLE W18 | J | 1900974 |
| PENNAINT LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 20 | 16 | | CONTACT SOCKETS |
| 21 | 17 AR | 1897147-106 | 108 AND 112. CABLE CLAMP SLEEVE |
| | 18 | | DELETED DELETED DELETED |
| | 19 | 1900974-006 | WIRE ND1002181 TYPE 2, CLASS 4, 20AWG WHITE (CONDUCTORS MARKED R AND L RESPECTIVELY) 456 FEET TOTAL LENGTH |
| <div> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div> <div> SIZE A </div> <div> 1900974 </div> | | | |
| SCALE - NONE REV LTR J SHEET 6 OF 18 | | | |

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|---|---|-------------------------|---|
| 618 | CABLE W18 | J | 1900974 |
| CONDUCTOR | | | |
| INDIVIDUAL LENGTH | FROM | TO | |
| ITEM NO. 2 | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2 | TERMINATION SPEC. 1 NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2 |
| NUMBER NO. 3 | ITEM NO. 4 | ITEM NO. 5 | ITEM NO. 6 |
| A 1 3 | 250 200 7 8 5 | A 11 | 250 200 A 11 7A |
| A 1A 4 | SHLD A1 25M | E1 | 25M |
| A 1L | P1-C* 19M 16 | P2-20 | 10M 15 |
| A 1R | P1-B* 19M 16 | P2-14 | 10M 15 |
| A 2 | DELETED | | |
| A 3 | DELETED | | |
| A 4 | DELETED | | |
| A 5 | DELETED | | |
| A 5A | DELETED | | |
| A 5L | DELETED | | |
| A 5R | DELETED | | |
| A 6 3 | 250 200 7 8 5 | A 11 | 250 200 A 11 7A |
| A 6A 4 | SHLD A6 25M | E1 | 25M |
| A 6L | P1-M* 19M 16 | P2-21 | 10M 15 |
| A 6R | P1-G* 19M 16 | P2-15 | 10M 15 |
| <div> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div> <div> SIZE A </div> <div> 1900974 </div> | | | |
| SCALE - NONE REV LTR J SHEET 7 OF 18 | | | |

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|---|---|-------------------------|---|
| 618 | CABLE W18 | J | 1900974 |
| CONDUCTOR | | | |
| INDIVIDUAL LENGTH | FROM | TO | |
| ITEM NO. 2 | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2 | TERMINATION SPEC. 1 NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2 |
| NUMBER NO. 3 | ITEM NO. 4 | ITEM NO. 5 | ITEM NO. 6 |
| A 7 3 | 250 200 7 8 5 | A 11 | 250 200 A 11 7A |
| A 7A 4 | SHLD A7 25M | E1 | 25M |
| A 7L | P1-P* 19M 16 | P2- 5 | 10M 15 |
| A 7R | P1-N* 19M 16 | P2- 6 | 10M 15 |
| A 8 | DELETED | | |
| A 9 | DELETED | | |
| A 9A | DELETED | | |
| A 9L | DELETED | | |
| A 9R | DELETED | | |
| A 10 | DELETED | | |
| A 11 | DELETED | | |
| A 11A | DELETED | | |
| A 11L | DELETED | | |
| A 11R | DELETED | | |
| A 12 | DELETED | | |
| <div> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div> <div> SIZE A </div> <div> 1900974 </div> | | | |
| SCALE - NONE REV LTR J SHEET 8 OF 18 | | | |

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|---|---|-------------------------|---|
| 618 | CABLE W18 | J | 1900974 |
| CONDUCTOR | | | |
| INDIVIDUAL LENGTH | FROM | TO | |
| ITEM NO. 2 | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2 | TERMINATION SPEC. 1 NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2 |
| NUMBER NO. 3 | ITEM NO. 4 | ITEM NO. 5 | ITEM NO. 6 |
| A 13 | DELETED | | |
| A 14 | DELETED | | |
| A 15 | DELETED | | |
| A 16 | DELETED | | |
| A 17 3 | 250 250 7 8 5 | A 11 | 250 250 A 11 7A |
| A 17A 4 | SHLD A17 25M | E1 | 25M |
| A 17L | P1-A* 19M 16 | P2- 7 | 10M 15 |
| A 17R | P1-Z 19M 16 | P2-13 | 10M 15 |
| A 18 | DELETED | | |
| A 19 | DELETED | | |
| A 20 | DELETED | | |
| A 21 | DELETED | | |
| A 22 | DELETED | | |
| A 22A | DELETED | | |
| A 22L | DELETED | | |
| A 22R | DELETED | | |
| A 23 | DELETED | | |
| <div> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div> <div> SIZE A </div> <div> 1900974 </div> | | | |
| SCALE - NONE REV LTR J SHEET 9 OF 18 | | | |

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CABLE W18

J

1900974

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------|-----|---|---------------|-------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 23A | | DELETED | | | | | | | |
| A 23L | | DELETED | | | | | | | |
| A 23R | | DELETED | | | | | | | |
| A 24 | | DELETED | | | | | | | |
| A 24A | | DELETED | | | | | | | |
| A 24L | | DELETED | | | | | | | |
| A 24R | | DELETED | | | | | | | |
| A 25 | | DELETED | | | | | | | |
| A 25A | | DELETED | | | | | | | |
| A 25L | | DELETED | | | | | | | |
| A 25R | | DELETED | | | | | | | |
| A 26 | 4 | P1-J* | 19M | 16 | | E1 | 25M | | |
| A 27 | | DELETED | | | | | | | |
| A 28 | 4 | P2-19 | 10M | 15 | | P2-26 | 10M | 15 | |
| A 29 | | DELETED | | | | | | | |
| A 30 | 5 | P1-T | 19M | 16 | | E3 | 25M | | |
| A 31 | 4 | E3 | 25M | | | P2-17 | 10M | 15 | |
| A 32 | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE | | | |
| | | | | | | REV LTR J | | | |
| | | | | | | SHEET 10 OF 18 | | | |

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CABLE W18

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1900974

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------|-----|---|---------------|-------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | | DELETED | | | | | | | |
| A 34 | 4 | P2-33 | 10M | 15 | | P2-34 | 10M | 15 | |
| A 35 | 5 | P1-R* | 19M | 16 | | E4 | 25M | | |
| A 36 | | DELETED | | | | | | | |
| A 36L | | DELETED | | | | | | | |
| A 36R | | DELETED | | | | | | | |
| A 36Y | | DELETED | | | | | | | |
| A 37 | 4 | E5 | 25M | | | P2-32 | 10M | 15 | |
| A 38 | 5 | P1-O* | 19M | 16 | | E6 | 25M | | |
| A 39 | | DELETED | | | | | | | |
| A 39L | | DELETED | | | | | | | |
| A 39R | | DELETED | | | | | | | |
| A 39Y | | DELETED | | | | | | | |
| A 40 | 4 | E7 | 25M | | | P2-24 | 10M | 15 | |
| A 41 | 5 | P1-S* | 19M | 16 | | E8 | 25M | | |
| A 42 | | DELETED | | | | | | | |
| A 42L | | DELETED | | | | | | | |
| A 42R | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE | | | |
| | | | | | | REV LTR J | | | |
| | | | | | | SHEET 11 OF 18 | | | |

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CABLE W18

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1900974

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------|-----|---|---------------|-------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 42Y | | DELETED | | | | | | | |
| A 43 | 4 | E9 | 25M | | | P2-31 | 10M | 15 | |
| A 44 | 5 | P1-A | 19M | 16 | | E10 | 25M | | |
| A 45 | | DELETED | | | | | | | |
| A 45L | | DELETED | | | | | | | |
| A 45R | | DELETED | | | | | | | |
| A 45Y | | DELETED | | | | | | | |
| A 46 | 4 | E11 | 25M | | | P2-23 | 10M | 15 | |
| A 47 | 5 | P1-T* | 19M | 16 | | E12 | 25M | | |
| A 48 | | DELETED | | | | | | | |
| A 48L | | DELETED | | | | | | | |
| A 48R | | DELETED | | | | | | | |
| A 48Y | | DELETED | | | | | | | |
| A 49 | 4 | E13 | 25M | | | P2-35 | 10M | 15 | |
| A 50 | 5 | P1-F* | 19M | 16 | | E14 | 25M | | |
| A 51 | | DELETED | | | | | | | |
| A 51L | | DELETED | | | | | | | |
| A 51R | | DELETED | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE | | | |
| | | | | | | REV LTR J | | | |
| | | | | | | SHEET 12 OF 18 | | | |

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CABLE W18

J

1900974

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------|---------|---|---------------|-------------|-------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 51Y | | DELETED | | | | | | | |
| A 52 | 4 | E15 | 25M | | | P2-36 | 10M | 15 | |
| A 53 | 5 | P1-E* | 19M | 16 | | E16 | 25M | | |
| A 54 | | DELETED | | | | | | | |
| A 54L | | DELETED | | | | | | | |
| A 54R | | DELETED | | | | | | | |
| A 54Y | | DELETED | | | | | | | |
| A 55 | 4 | E17 | 25M | | | P2-28 | 10M | 15 | |
| A 56 | 5 | P1-B | 19M | 16 | | E18 | 25M | | |
| A 57 | | DELETED | | | | | | | |
| A 57L | | DELETED | | | | | | | |
| A 57R | | DELETED | | | | | | | |
| A 57Y | | DELETED | | | | | | | |
| A 58 | 4 | E19 | 25M | | | P2-27 | 10M | 15 | |
| A 59 | 4 | E3 | 25M | | | P2-18 | 10M | 15 | |
| A 60 | 4 | E3 | 25M | | | E23 | 25M | | |
| A 61 | 4 | P2-9 | 10M | 15 | | P2-10 | 10M | 15 | |
| A 62 | 19 | | 350 | 300 | A 11 TA | | 350 | 300 | 7 8 5 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE | | | |
| | | | | | | REV LTR J | | | |
| | | | | | | SHEET 13 OF 18 | | | |

G18

CABLE W18

J 1900974

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----|--|---|------------------------|-----|----------------|---|------------------------|-----|
| | | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| A 62B | 4 | | SHLD A62 | 25 | | E20 | 25 | | |
| A 62L | | | E4 | 25 | | E5 | 25 | | |
| A 62R | | | E6 | 25 | | E7 | 25 | | |
| A 63 | 19 | | | 330 | 300 | A 11 | 7A | | |
| A 63B | 4 | | SHLD A63 | 25 | | E20 | 25 | | |
| A 63L | | | E4 | 25 | | E5 | 25 | | |
| A 63R | | | E6 | 25 | | E7 | 25 | | |
| A 64 | 19 | | | 330 | 300 | A 11 | 7A | | |
| A 64B | 4 | | SHLD A64 | 25 | | E20 | 25 | | |
| A 64L | | | E4 | 25 | | E5 | 25 | | |
| A 64R | | | E6 | 25 | | E7 | 25 | | |
| A 65 | 19 | | | 330 | 300 | A 11 | 7A | | |
| A 65B | 4 | | SHLD A65 | 25 | | E20 | 25 | | |
| A 65L | | | E8 | 25 | | E9 | 25 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | | | |
| | | SCALE - NONE | | REV LTR J | | SHEET 14 OF 18 | | | |

G18

CABLE W18

J 1900974

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----|--|---|------------------------|-----|----------------|---|------------------------|-----|
| | | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| A 65R | | | E10 | 25 | | E11 | 25 | | |
| A 66 | 19 | | | 380 | 350 | A 11 | 7A | | |
| A 66B | 4 | | SHLD A66 | 25 | | E21 | 25 | | |
| A 66L | | | E8 | 25 | | E9 | 25 | | |
| A 66R | | | E10 | 25 | | E11 | 25 | | |
| A 67 | 19 | | | 380 | 350 | A 11 | 7A | | |
| A 67B | 4 | | SHLD A67 | 25 | | E21 | 25 | | |
| A 67L | | | E8 | 25 | | E9 | 25 | | |
| A 67R | | | E10 | 25 | | E11 | 25 | | |
| A 68 | 19 | | | 380 | 350 | A 11 | 7A | | |
| A 68B | 4 | | SHLD A68 | 25 | | E21 | 25 | | |
| A 68L | | | E14 | 25 | | E15 | 25 | | |
| A 68R | | | E16 | 25 | | E17 | 25 | | |
| A 69 | 19 | | | 430 | 400 | A 11 | 7A | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | | | |
| | | SCALE - NONE | | REV LTR J | | SHEET 15 OF 18 | | | |

G18

CABLE W18

J 1900974

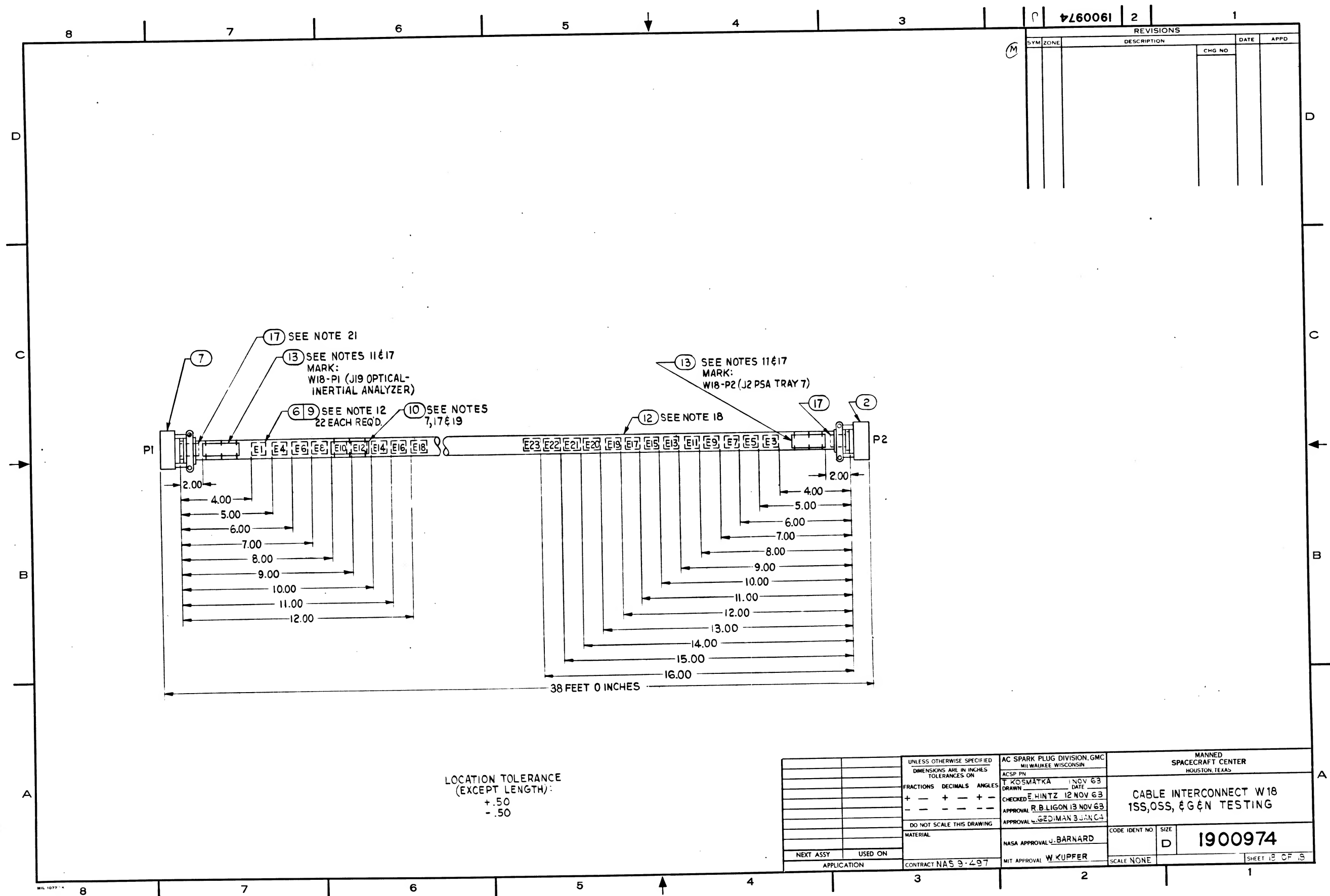
| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----|--|---|------------------------|-----|----------------|---|------------------------|-----|
| | | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| A 69B | 4 | | SHLD A69 | 25 | | E21 | 25 | | |
| A 69L | | | E14 | 25 | | E15 | 25 | | |
| A 69R | | | E16 | 25 | | E17 | 25 | | |
| A 70 | 19 | | | 430 | 400 | A 11 | 7A | | |
| A 70B | 4 | | SHLD A70 | 25 | | E22 | 25 | | |
| A 70L | | | E14 | 25 | | E15 | 25 | | |
| A 70R | | | E16 | 25 | | E17 | 25 | | |
| A 71 | 19 | | | 430 | 400 | A 11 | 7A | | |
| A 71B | 4 | | SHLD A71 | 25 | | E22 | 25 | | |
| A 71L | | | E12 | 25 | | E13 | 25 | | |
| A 71R | | | E18 | 25 | | E19 | 25 | | |
| A 72 | 19 | | | 480 | 450 | A 11 | 7A | | |
| A 72B | 4 | | SHLD A72 | 25 | | E22 | 25 | | |
| A 72L | | | E12 | 25 | | E13 | 25 | | |
| A 72R | | | E18 | 25 | | E19 | 25 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | | | |
| | | SCALE - NONE | | REV LTR J | | SHEET 16 OF 18 | | | |

G18

CABLE W18

J 1900974

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----|--|---|------------------------|-----|----------------|---|------------------------|-----|
| | | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. 1 | NO. |
| A 73 | 19 | | | 480 | 450 | A 11 | 7A | | |
| A 73B | 4 | | SHLD A73 | 25 | | E22 | 25 | | |
| A 73L | | | E12 | 25 | | E13 | 25 | | |
| A 73R | | | E18 | 25 | | E19 | 25 | | |
| A 74 | 5 | | P1-V | 19 | | E23 | 25 | | |
| A 75 | 4 | | E20 | 25 | | E21 | 25 | | |
| A 76 | 4 | | E21 | 25 | | E22 | 25 | | |
| A 77 | 4 | | E22 | 25 | | E23 | 25 | | |
| A 78 | 4 | | E23 | 25 | | P2-25 | 10 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900974 | | | |
| | | SCALE - NONE | | REV LTR J | | SHEET 17 OF 18 | | | |



| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 1A | 4 | SHLD A1 | 22N | | | E1 | 37N | | |
| A 1L | | P1-C* | 22N | | | P2-C* | 22N | | |
| A 1R | | P1-B* | 22N | | | P2-B* | 22N | | |
| A 2 | 5 | P1-N | 22N | | | P2-N | 22N | | |
| A 3 | 5 | P1-R | 22N | | | P2-R | 22N | | |
| A 4 | 5 | P1-P | 22N | | | P2-P | 22N | | |
| A 5 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 5A | 4 | SHLD A5 | 22N | | | E1 | 37N | | |
| A 5L | | P1-F* | 22N | | | P2-F* | 22N | | |
| A 5R | | P1-E* | 22N | | | P2-E* | 22N | | |
| A 6 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 6A | 4 | SHLD A6 | 22N | | | E1 | 37N | | |
| A 6L | | P1-H* | 22N | | | P2-H* | 22N | | |
| A 6R | | P1-G* | 22N | | | P2-G* | 22N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE REV LTR + SHEET 6 OF 10 | | | |

MIL 2085 - 4-65 WIR

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 7 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 7A | 4 | SHLD A7 | 22N | | | E1 | 37N | | |
| A 7L | | P1-P* | 22N | | | P2-P* | 22N | | |
| A 7R | | P1-N* | 22N | | | P2-N* | 22N | | |
| A 8 | 5 | P1-T | 22N | | | P2-T | 22N | | |
| A 9 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 9A | 4 | SHLD A9 | 22N | | | E1 | 37N | | |
| A 9L | | P1-R* | 22N | | | P2-R* | 22N | | |
| A 9R | | P1-Q* | 22N | | | P2-Q* | 22N | | |
| A 10 | 5 | P1-S | 22N | | | P2-S | 22N | | |
| A 11 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 11A | 4 | SHLD A11 | 22N | | | E1 | 37N | | |
| A 11L | | P1-T* | 22N | | | P2-T* | 22N | | |
| A 11R | | P1-S* | 22N | | | P2-S* | 22N | | |
| A 12 | 5 | P1-A | 22N | | | P2-A | 22N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE REV LTR + SHEET 7 OF 10 | | | |

MIL 2085 - 4-65 WIR

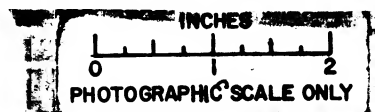
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|----------------|---|
| 16 | 1 | 1 | MS3126F20-41SW | (1897052-411) CONNECTOR PLUG |
| 16 | 2 | 1 | 1010621-2 | (1001251-411) CONNECTOR PLUG |
| | 3 | 1 | 1900974-001 | WIRE ND 1002181 TYPE 2, CLASS 4, T2, 20 AWG, WHITE (CONDUCTORS MARKED R&L RESPECTIVELY, 420 FT. TOTAL LENGTH. |
| | 4 | 1 | 1900974-002 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG, 12 FT., TOTAL LENGTH. |
| | 5 | 1 | 1900974-003 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG, 535 FT. TOTAL LENGTH. |
| 10 | 6 | 2 | 1010490-200 | INSULATION - SLEEVING, ELEC |
| 10 | 7 | 11 | 1000243-011 | FERRULE - ELEC COND |
| 10 | 8 | 11 | 1000242-009 | FERRULE - ELEC COND |
| 10 | 9 | 2 | 1016006-001 | SPLICE REDUCER |
| 10 | 10 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 11 | 22 | 1010490-198 | INSULATION-SLEEVING ELEC |
| | 12 | 1 | 1900974-004 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 11/16 IN. DIA 42 FT. TOTAL LENGTH |
| 10 | 13 | 2 | 1016128-041 | BAND IDENTIFICATION |
| 10 | 14 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| 10 | 15 | 38 | 1010464-1 | CONTACTS, PINS |

MIL 2084 4-65

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900974 |
| SCALE - NONE | REV LTR + | SHEET 5 OF 10 |

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13 | 5 | P1-B | 22N | | | P2-B | 22N | | |
| A 14 | 5 | P1-C | 22N | | | P2-C | 22N | | |
| A 15 | 5 | P1-D | 22N | | | P2-D | 22N | | |
| A 16 | 5 | P1-E | 22N | | | P2-E | 22N | | |
| A 17 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 17A | 4 | SHLD A17 | 22N | | | E1 | 37N | | |
| A 17L | | P1-A* | 22N | | | P2-A | 22N | | |
| A 17R | | P1-Z | 22N | | | P2-Z | 22N | | |
| A 18 | 5 | P1-I* | 22N | | | P2-I* | 22N | | |
| A 19 | 5 | P1-F | 22N | | | P2-F | 22N | | |
| A 20 | 5 | P1-G | 22N | | | P2-G | 22N | | |
| A 21 | 5 | P1-H | 22N | | | P2-H | 22N | | |
| A 22 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 22A | 4 | SHLD A22 | 22N | | | E2 | 37N | | |
| A 22L | | P1-K | 22N | | | P2-K | 22N | | |
| A 22R | | P1-J | 22N | | | P2-J | 22N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE REV LTR + SHEET 8 OF 10 | | | |

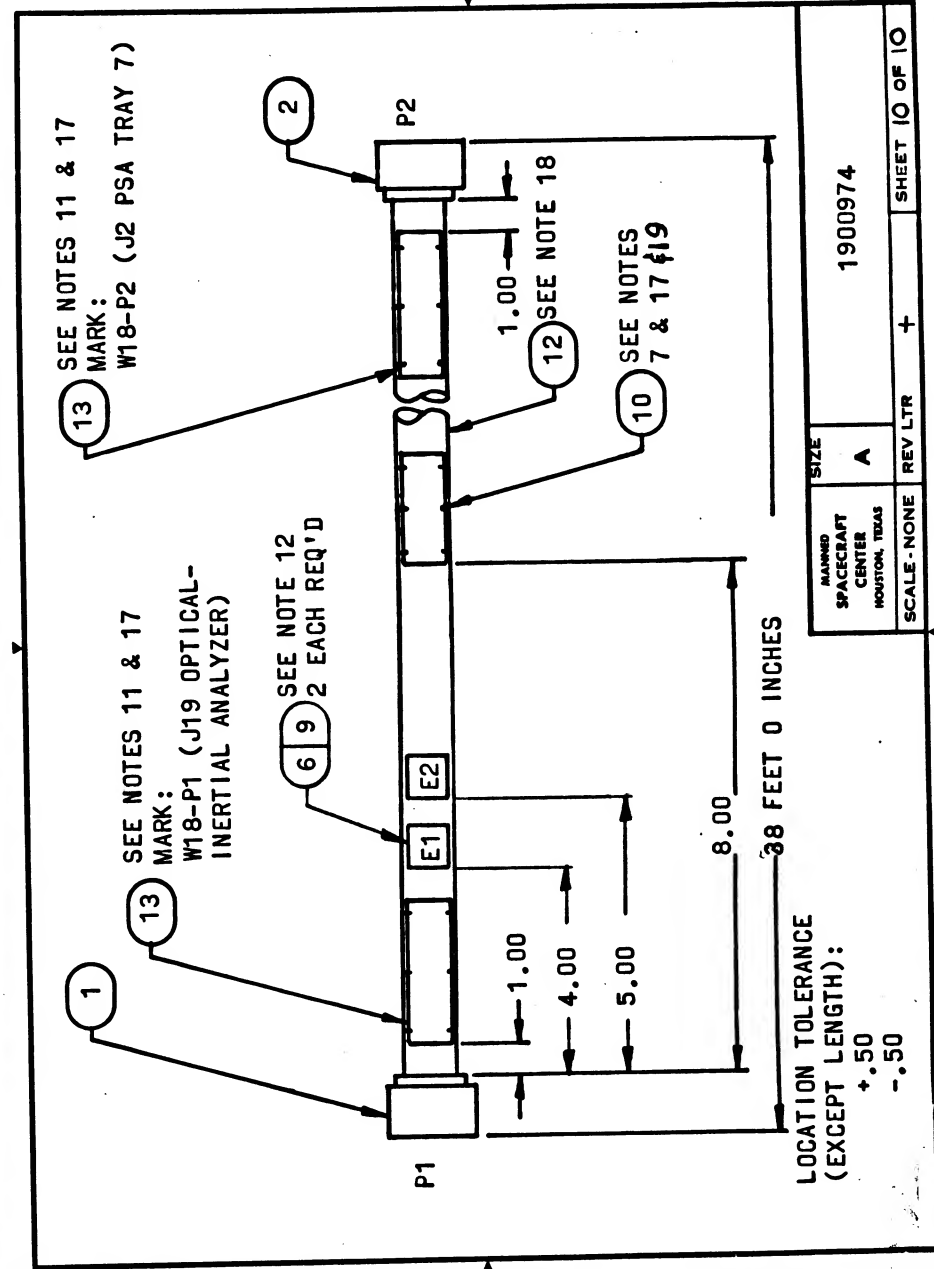
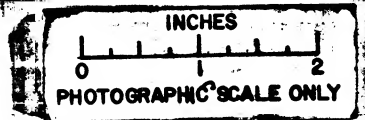
MIL 2085 - 4-65 WIR



| CONDUCTOR | | | FROM | | | TO | | |
|-----------|-------------------|-------------------|--------------------|----------------------|-------------------|--------------------|----------------------|-------------------|
| ITEM NO. | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT |
| NUMBER | ITEM NO. | TERMINATION SPEC. | NO. | ITEM NO. | TERMINATION SPEC. | NO. | ITEM NO. | TERMINATION SPEC. |
| A 23 | 3 | | 330 | 330 | 7 | 8 | 5 | |
| A 23A | 4 | | | | | | | |
| A 23L | | | | | | | | |
| A 23R | | | | | | | | |
| A 24 | 3 | | 330 | 300 | 7 | 8 | 5 | |
| A 24A | 4 | | | | | | | |
| A 24L | | | | | | | | |
| A 24R | | | | | | | | |
| A 25 | 3 | | 330 | 300 | 7 | 8 | 5 | |
| A 25A | 4 | | | | | | | |
| A 25L | | | | | | | | |
| A 25R | | | | | | | | |
| A 26 | 4 | | | | | | | |
| A 27 | 4 | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| MANUFACTURER | SPACECRAFT CENTER | HOUSTON, TEXAS | SCALE | REV | LTR | + | SHEET |
|--------------|-------------------|----------------|-------|-----|-----|---|---------|
| 1900974 | A | | NONE | | | | 9 OF 10 |



| MANUFACTURER | SPACECRAFT CENTER | HOUSTON, TEXAS | SCALE | REV | LTR | + | SHEET |
|--------------|-------------------|----------------|-------|-----|-----|---|----------|
| 1900974 | A | | NONE | | | | 10 OF 10 |

| | | | | | |
|-------------|------------|-----------|--|------|----------|
| APPLICATION | | REVISIONS | | DATE | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 900005-011 | A | CHANGE IN ACCORDANCE WITH CM-193190 04-21-64 | 19 | 83 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 034413 DATE 11/16/64

| | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| SYMBOL | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| STATUS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

AC SPARK PLUG DIVISION, GNC
MILWAUKEE, WISCONSIN

SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE INTERCONNECT W11
1SS, OSS, & GAN TESTING

CODE IDENT NO. 1900975

SIZE A

REV A

SHEET 1 OF 16

CONTRACT NAS 9-497

SCALE NONE

GIC CABLE W11 A 1900975

PENNA
NOTE

GENERAL NOTES

- SEE CONDUCTOR CHART, PENNA NOTE 1.
- SEE CONDUCTOR CHART, PENNA NOTE 2.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-76327.
- MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER: ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY .15 INCHES MAX. AND AT EACH TERMINATION.
- SPIRALLING OF THE MARKING IS ALLOWED.
- IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (65-267). .12 INCH HIGH CHARACTERS BLACK.
- Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
- VENOM ITEM - SEE SPECIFICATION CONTROL DRAWING.
- MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

| | | |
|-----------------|-------------------|----------------|
| MANUFACTURED BY | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SIZE | A | 1900975 |
| SCALE | NONE | REV LTR A |
| SHEET 2 OF 16 | | |

GIC CABLE W11 A 1900975

PENNA
NOTE

GENERAL NOTES

- A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE HEADING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY OF THE WIRE MARKER SLEEVING.
- THE SUFFIX LETTER UP A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE
- ASSEMBLE CONTACTS IN ALL CONNECTOR GRUMMET HOLES.
- SECURE TO CABLE USING ITEM 17, MARKING TO REEL AWAY FROM CONNECTOR.
- SEAL ZIPPER TUBING PER ND1002153
- SERIALIZE PER ND1002023
- ITEM 22 FURNISHED WITH ITEM 2
- ITEM 23 FURNISHED WITH ITEM 1
- ITEM 19 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FEEDERLEADS AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 19 AS REQUIRED TO FIT.

| | | |
|-----------------|-------------------|----------------|
| MANUFACTURED BY | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SIZE | A | 1900975 |
| SCALE | NONE | REV LTR A |
| SHEET 3 OF 16 | | |

GIC CABLE W11 A 1900975

PENNA
NOTE

GENERAL NOTES

TOLENANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH | TOLERANCE | | | | | |
|--------------------|-------------------|------------|---------------|------------|-----------|-----------------|
| | FOR WIRE OR CABLE | STRIP WIRE | WIRE OR CABLE | WIRE STRIP | JACKET | CUT WIRE SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.00 | + .06-.00 | + .06-.00 | + .06-.00 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | | |

| | | |
|-----------------|-------------------|----------------|
| MANUFACTURED BY | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SIZE | A | 1900975 |
| SCALE | NONE | REV LTR A |
| SHEET 4 OF 16 | | |

| PENMANI | | LIST OF MATERIALS | |
|---------|----------|-------------------|---|
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 16 | 1 1 | MS3126F22-55SW | (1897046-551) CONNECTOR PLUG |
| 16 | 2 1 | MS3126F22-55PW | (1897046-551) CONNECTOR PLUG |
| | 3 1 | 1900975-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 20AWG, WHT/BLU, WHT/RED, 800 FT TOTAL LENGTH |
| | 4 1 | 1900975-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JAKT, 20AWG, 380 FT TOTAL LENGTH |
| | 5 1 | 1900975-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 38 FT TOTAL LENGTH |
| | 6 1 | 1900975-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, 32 FT TOTAL LENGTH |
| 10 | 7 22 | 1000243-011 | FERRULE, ELEC COND |
| 10 | 8 21 | 1000242-009 | FERRULE, ELEC COND |
| 10 | 9 10 | 1000243-005 | FERRULE, ELEC COND |
| 10 | 10 10 | 1000242-004 | FERRULE, ELEC COND |
| 10 | 11 62 | 1010490-198 | INSULATION, SLEEVING ELEC |
| 12 | 1 | 1900975-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1.25 IN. DIA, 42 FT TOTAL LENGTH |
| 10 | 13 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 14 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 15 5 | 1016004-002 | SPLICE REDUCER |
| 10 | 16 5 | 1010490-258 | INSULATION-SLEEVING ELEC |

MANNNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900975

SCALE-NONE

REV LTR

A

SHEET 5 OF 14

| PERMANENT | | LIST OF MATERIALS | | |
|-----------|----------|-------------------|-------------|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 17 | AR | MIL-T-715 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732 No. 10) |
| | 14 | | 1900975-006 | WIRE COAXIAL MIL-C-17/69A RG 188 A/U 38 FT TOTAL LENGTH |
| 22 | 19 | 8- | 1897147-108 | -112 CABLE CLAMP SLEEVE |
| | 20 | 2 | 1000248-006 | FERRULE ELECT. COND |
| | 21 | 2 | 1000242-005 | FERRULE ELECT. COND |
| 20 | 22 | | | CONTACT PINS |
| 21 | 23 | | | CONTACT SOCKETS |

| | | |
|--|---------------|------------|
| MANITO SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE - NONE | REV LTR | SHEET 6 OF |

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|--|---------------------|---------------|----------|------------------|---------------------|---------------|--------------------|---------|--|------------------|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC | | |
| NUMBER | ITEM NO. | | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | | | |
| A 1 | 3 | | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A | | | | |
| | | | | | A 11 | | | | | | | | | |
| A 1A | 6 | | SHLD A1 | 25N | | | E1 | 25N | | | | | | |
| A 1L | | | P1-D | 19N | 23 | | P2-D | 19N | 22 | | | | | |
| A 1R | | | P1-C | 19N | 23 | | P2-C | 19N | 22 | | | | | |
| A 2 | 3 | | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A | | | | |
| | | | | | A 11 | | | | | | | | | |
| A 2A | 6 | | SHLD A2 | 25N | | | E1 | 25N | | | | | | |
| A 2L | | | P1-F | 19N | 23 | | P2-F | 19N | 22 | | | | | |
| A 2R | | | P1-E | 19N | 23 | | P2-E | 19N | 22 | | | | | |
| A 3 | 3 | | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A | | | | |
| | | | | | A 11 | | | | | | | | | |
| A 3A | 6 | | SHLD A3 | 25N | | | E1 | 25N | | | | | | |
| A 3L | | | P1-H | 19N | 23 | | P2-H | 19N | 22 | | | | | |
| A 3R | | | P1-G | 19N | 23 | | P2-G | 19N | 22 | | | | | |
| A 4 | 3 | | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A | | | | |
| | | | | | A 11 | | | | | | | | | |
| A 4A | 6 | | SHLD A4 | 25N | | | E1 | 25 | | | | | | |

1

> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

1900975

REV LTR A

SHEET 7 OF 16

| CONDUCTOR | | | | FROM | | | | TO | | | |
|---|----------|--------------------|-----|-------------------|------|----------------------|---|-------------------|-----------|----------|------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | IND. | |
| STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | |
| NUMBER | ITEM NO. | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| A 4L | | P1-K | 19N | 23 | | | | P2-K | 19N | 22 | |
| A 4R | | P1-J | 19N | 23 | | | | P2-J | 19N | 22 | |
| A 5 | 3 | | 280 | 250 | 7 | 8 | 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 5A | 6 | SHLD A5 | 25N | | | | | E1 | 25N | | |
| A 5L | | P1-M | 19N | 23 | | | | P2-M | 19N | 22 | |
| A 5R | | P1-L | 19N | 23 | | | | P2-L | 19N | 22 | |
| A 6 | 3 | | 280 | 250 | 7 | 8 | 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 6A | 6 | SHLD A6 | 25N | | | | | E1 | 25N | | |
| A 6L | | P1-V | 19N | 23 | | | | P2-V | 19N | 22 | |
| A 6R | | P1-U | 19N | 23 | | | | P2-U | 19N | 22 | |
| A 7 | 3 | | 280 | 250 | 7 | 8 | 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 7A | 6 | SHLD A7 | 25N | | | | | E2 | 25N | | |
| A 7L | | P1-FF | 19N | 23 | | | | P2-FF | 19N | 22 | |
| A 7R | | P1-EE | 19N | 23 | | | | P2-EE | 19N | 22 | |
| A 8 | 4 | | 280 | 250 | 10 | 9 | 5 | | 280 | 250 | A 11 7A |
| 1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | NAMED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900975 |
| SCALE - NONE | | | | | | | REV LTR | | A | | SHEET 8 OF |

GIC CABLE #11 A 1900975

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|----------------|----------------------|-----------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| A 8A | 6 | SHLD A8 | 25N | E2 | 25N |
| A 8W | | P1-I* | 19N 23 | P2-I* | 19N 22 |
| A 9 | 4 | | 330 300 10 9 5 | | 330 300 A 11 7A |
| A 9A | 6 | SHLD A9 | 25N | E2 | 25N |
| A 9W | | P1-J* | 19N 23 | P2-J* | 19N 22 |
| A 10 | 4 | | 330 300 10 9 5 | | 330 300 A 11 7A |
| A 10A | 6 | SHLD A10 | 25N | E2 | 25N |
| A 10W | | P1-K* | 19N 23 | P2-K* | 19N 22 |
| A 11 | 4 | | 330 300 10 9 5 | | 330 300 A 11 7A |
| A 11A | 6 | SHLD A11 | 25N | E2 | 25N |
| A 11W | | P1-M* | 19N 23 | P2-M* | 19N 22 |
| A 12 | 4 | | 330 300 10 9 5 | | 330 300 A 11 7A |
| A 12A | 6 | SHLD A12 | 25N | E2 | 25N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR A SHEET 9 OF 16

GIC CABLE #11 A 1900975

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|----------------|----------------------|-----------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| A 12W | | P1-P | 19N 23 | P2-P | 19N 22 |
| A 13 | 4 | | 380 350 14 9 5 | | 380 350 A 11 7A |
| A 13A | 6 | SHLD A13 | 25N | E3 | 25N |
| A 13W | | P1-N | 19N 23 | P2-N | 19N 22 |
| A 14 | 3 | | 380 350 8 9 5 | | 380 350 A 11 7A |
| A 14A | 6 | SHLD A14 | 25N | E3 | 25N |
| A 14L | | P1-X | 19N 23 | P2-X | 19N 22 |
| A 14R | | P1-W | 19N 23 | P2-W | 19N 22 |
| A 15 | 3 | | 380 350 8 9 5 | | 380 350 A 11 7A |
| A 15A | 6 | SHLD A15 | 25N | E3 | 25N |
| A 15L | | P1-Z | 19N 23 | P2-Z | 19N 22 |
| A 15R | | P1-Y | 19N 23 | P2-Y | 19N 22 |
| A 16 | 3 | | 380 350 7 8 5 | | 380 350 A 11 7A |
| A 16A | 6 | SHLD A16 | 25N | E3 | 25N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR A SHEET 10 OF 16

GIC CABLE #11 A 1900975

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|---------------|----------------------|-----------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| A 16L | | P1-B* | 19N 23 | P2-B* | 19N 22 |
| A 16R | | P1-A* | 19N 23 | P2-A* | 19N 22 |
| A 17 | 3 | | 430 400 7 8 5 | | 430 400 A 11 7A |
| A 17A | 6 | SHLD A17 | 25N | E3 | 25N |
| A 17L | | P1-D* | 19N 23 | P2-D* | 19N 22 |
| A 17R | | P1-C* | 19N 23 | P2-C* | 19N 22 |
| A 18 | 3 | | 430 400 7 8 5 | | 430 400 A 11 7A |
| A 18A | 6 | SHLD A18 | 25N | E3 | 25N |
| A 18L | | P1-R* | 19N 23 | P2-R* | 19N 22 |
| A 18R | | P1-Q* | 19N 23 | P2-Q* | 19N 22 |
| A 19 | 3 | | 430 400 7 8 5 | | 430 400 A 11 7A |
| A 19A | 6 | SHLD A19 | 25N | E4 | 25N |
| A 19L | | P1-T* | 19N 23 | P2-T* | 19N 22 |
| A 19R | | P1-S* | 19N 23 | P2-S* | 19N 22 |
| A 20 | 3 | | 430 400 7 8 5 | | 430 400 A 11 7A |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR A SHEET 11 OF 16

GIC CABLE #11 A 1900975

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------|----------------|----------------------|-----------------|
| | | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| A 20A | 6 | SHLD A20 | 25N | E4 | 25N |
| A 20L | | P1-V* | 19N 23 | P2-V* | 19N 22 |
| A 20R | | P1-U* | 19N 23 | P2-U* | 19N 22 |
| A 21 | 3 | | 480 450 7 8 5 | | 480 450 A 11 7A |
| A 21A | 6 | SHLD A21 | 25N | E4 | 25N |
| A 21L | | P1-X* | 19N 23 | P2-X* | 19N 22 |
| A 21R | | P1-W* | 19N 23 | P2-W* | 19N 22 |
| A 22 | 3 | | 480 450 7 8 5 | | 480 450 A 11 7A |
| A 22A | 6 | SHLD A22 | 25N | E4 | 25N |
| A 22L | | P1-OB | 19N 23 | P2-OB | 19N 22 |
| A 22R | | P1-AA | 19N 23 | P2-AA | 19N 22 |
| A 23 | 4 | | 480 450 9 10 5 | | 480 450 A 11 7A |
| A 23A | 6 | SHLD A23 | 25N | E4 | 25N |
| A 23W | | P1-A | 19N 23 | P2-A | 19N 22 |

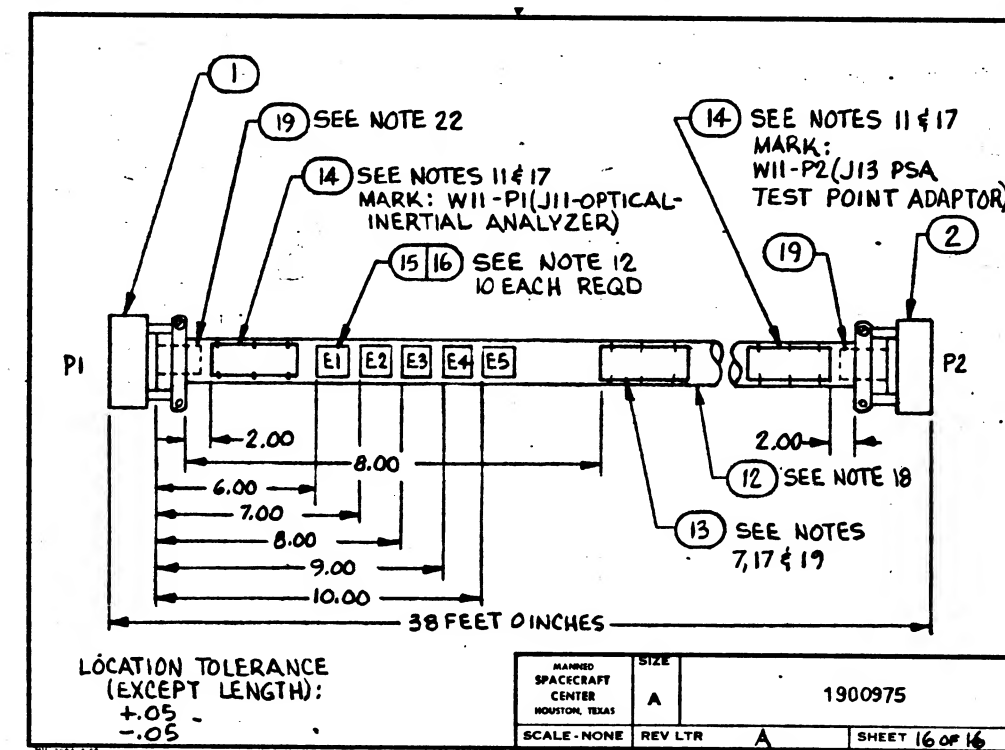
THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR A SHEET 12 OF 16

| CONDUCTOR | | | | | | | | | |
|--|---|----------|-----|-----|-----|-------|-----|-----|--|
| INDIVIDUAL LENGTH | | | | | | | | | |
| FROM | | | | | | | | | |
| TO | | | | | | | | | |
| TERMINATION | | | | | | | | | |
| SPEC | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| A 24 | 3 | | | 480 | 450 | 7 | 8 | 5 | |
| A 24A | 6 | SHLD A24 | 25N | | | E4 | | 25N | |
| A 24L | | P1-S | 19N | 23 | | P2-S | 19N | 22 | |
| A 24R | | P1-R | 19N | 23 | | P2-R | 19N | 22 | |
| A 25 | 4 | | 530 | 500 | 9 | 10 | 5 | | |
| A 25A | 6 | SHLD A25 | 25N | | | E5 | | 25N | |
| A 25L | | P1-T | 19N | 23 | | P2-T | 19N | 22 | |
| A 25R | | | 530 | 500 | 7 | 8 | 5 | | |
| A 26A | 6 | SHLD A26 | 25N | | | E5 | | 25N | |
| A 26L | | P1-F* | 19N | 23 | | P2-F* | 19N | 22 | |
| A 26R | | P1-E* | 19N | 23 | | P2-E* | 19N | 22 | |
| A 27 | 3 | | 530 | 500 | 7 | 8 | 5 | | |
| A 27A | 6 | SHLD A27 | 25N | | | E5 | | 25N | |
| A 27L | | P1-H* | 19N | 23 | | P2-H* | 19N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| SIZE A | | | | | | | | | |
| 1900975 | | | | | | | | | |
| SCALE - NONE REV LTR A | | | | | | | | | |
| SHEET 13 OF 16 | | | | | | | | | |

| CONDUCTOR | | | | | | | | | |
|--|---|----------|-----|-----|---|-------|-----|-----|--|
| INDIVIDUAL LENGTH | | | | | | | | | |
| FROM | | | | | | | | | |
| TO | | | | | | | | | |
| TERMINATION | | | | | | | | | |
| SPEC | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| A 27R | | P1-G* | 19N | 23 | | P2-G* | 19N | 22 | |
| A 28 | 3 | | 530 | 500 | 7 | 8 | 5 | | |
| A 28A | 6 | SHLD A28 | 25N | | | E5 | | 25N | |
| A 28L | | P1-P* | 19N | 23 | | P2-P* | 19N | 22 | |
| A 28R | | P1-N* | 19N | 23 | | P2-N* | 19N | 22 | |
| A 29 | 3 | | 580 | 550 | 7 | 8 | 5 | | |
| A 29A | 6 | SHLD A29 | 25N | | | E5 | | 25N | |
| A 29L | | P1-Z* | 19N | 23 | | P2-Z* | 19N | 22 | |
| A 29R | | P1-Y* | 19N | 23 | | P2-Y* | 19N | 22 | |
| A 30 | 4 | | 580 | 550 | 9 | 10 | 5 | | |
| A 30A | 6 | SHLD A30 | 25N | | | E5 | | 25N | |
| A 30L | | P1-CC | 19N | 23 | | P2-CC | 19N | 22 | |
| A 31 | 4 | | 580 | 550 | 9 | 10 | 5 | | |
| A 31A | 6 | SHLD A31 | 25N | | | E5 | | 25N | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| SIZE A | | | | | | | | | |
| 1900975 | | | | | | | | | |
| SCALE - NONE REV LTR A | | | | | | | | | |
| SHEET 14 OF 16 | | | | | | | | | |

| CONDUCTOR | | | | | | | | | |
|--|----|----------|-----|-----|----|----------|-----|-----|--|
| INDIVIDUAL LENGTH | | | | | | | | | |
| FROM | | | | | | | | | |
| TO | | | | | | | | | |
| TERMINATION | | | | | | | | | |
| SPEC | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| CUT WIRE OR SHIELD | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | |
| ITEM NO. | | | | | | | | | |
| NO. | | | | | | | | | |
| A 31W | | P1-DD | 19N | 23 | | P2-DD | 19N | 22 | |
| A 32 | 5 | P1-GG | 19N | 23 | | P2-GG | 19N | 22 | |
| A 33 | 6 | P1-B | 19N | 23 | | E1 | | 25N | |
| A 34 | 6 | E1 | | 25N | | E2 | | 25N | |
| A 35 | 6 | E2 | | 25N | | E3 | | 25N | |
| A 36 | 6 | E3 | | 25N | | E4 | | 25N | |
| A 37 | 6 | E4 | | 25N | | E5 | | 25N | |
| A 38 | 10 | | 580 | 550 | 20 | 21 | 5 | | |
| A 38A | 6 | SHLD A38 | 25N | | | P1-S | 19N | 23 | |
| A 38B | 6 | P2-S | 19N | 22 | | SHLD A38 | 25N | | |
| A 38W | | P1-R | 19N | 23 | | P2-R | 19N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| SIZE A | | | | | | | | | |
| 1900975 | | | | | | | | | |
| SCALE - NONE REV LTR A | | | | | | | | | |
| SHEET 15 OF 16 | | | | | | | | | |



GIC CABLE W11 B 1900975

PENNANT GENERAL NOTES

NOTE

- SEE CONDUCTOR CHART, PENNANT NOTE 1.
- SEE CONDUCTOR CHART, PENNANT NOTE 2.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
- SPIRALLING OF THE MARKING IS ALLOWED.
- IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-150 (ES-267), .12 INCH HIGH CHARACTERS BLACK.
- Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR Y IN THE ACCESSORIES ITEM NUMBER FIELD.

| | | |
|--|-----------|---------------|
| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE-NONE | REV LTR B | SHEET 2 OF 17 |

GIC CABLE W11 B 1900975

PENNANT GENERAL NOTES

NOTE

- A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE
Y - WHITE WITH YELLOW TRACER
- ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR.
- SEAL ZIPPER TUBING PER ND1002153
- SERIALIZE PER ND1002029
- ITEM 22 FURNISHED WITH ITEM 2
- ITEM 23 FURNISHED WITH ITEM 1
- ITEM 19 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 19 AS REQUIRED TO FIT.

| | | |
|--|-----------|---------------|
| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE-NONE | REV LTR B | SHEET 3 OF 17 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05443 DATE 1/26/64

| APPLICATION | SYN | DESCRIPTION | DATE | APPROVAL |
|--------------------|-----|--|-----------|----------|
| 1901308 1900005-01 | A | CHANGE IN ACCORDANCE WITH CM-193190 | 19 FEB 64 | JJ |
| | B | CHANGE IN ACCORDANCE WITH CM 19750 REVISED CUSTOMER DATA (V2-CA) | MAY 64 | JJ |
| | | REVISED PER TDR 05443 | | |

| | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |

MANUFACTURED
SPACECRAFT
CENTER
HOUSTON, TEXAS

CABLE INTERCONNECT W11
ISS, OSS, & GAN TESTING

| | | |
|----------------|-----------|---------------|
| CODE IDENT NO. | SIZE | 1900975 |
| SCALE-NONE | REV LTR B | SHEET 1 OF 17 |

AC SPARK PLUG DIVISION, GAC
MILWAUKEE, WISCONSIN

APPROVAL
1900975

CONTRACT NAS 9-497

GIC CABLE W11 B 1900975

PENNANT GENERAL NOTES

NOTE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH
FOR WIRE OR CABLE,
STRIP WIRE, STRIP
JACKET, CUT WIRE
OR CUT SHIELD.

| | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD |
|--------------------|------------------|-----------|-----------------|-----------|---------------|
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
|--|-----------|---------------|
| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE-NONE | REV LTR B | SHEET 4 OF 17 |

| | | | | | | | |
|---------|------|-------------------|------------------------------|---|-----------|---------------|--|
| GIC | | CABLE W11 | | B | | 1900975 | |
| PENNAME | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 16 | 1 | 1 | M53126F22-555W (1897046-551) | CONNECTOR PLUG | | | |
| 16 | 2 | 1 | M53126F22-55PW (1897045-551) | CONNECTOR PLUG | | | |
| | 3 | 1 | 1900975-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 20AWG, WHT/BLU, WHT/RED 646 FT TOTAL LENGTH | | | |
| | 4 | 1 | 1900975-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JAKT, 20AWG, 380 FT TOTAL LENGTH | | | |
| | 5 | 1 | 1900975-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 38 FT TOTAL LENGTH | | | |
| | 6 | 1 | 1900975-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, 32 FT TOTAL LENGTH | | | |
| 10 | 7 | 17 | 1000243-011 | FERRULE, ELEC COND | | | |
| 10 | 8 | 17 | 1000242-009 | FERRULE, ELEC COND | | | |
| 10 | 9 | 10 | 1000243-005 | FERRULE, ELEC COND | | | |
| 10 | 10 | 10 | 1000242-004 | FERRULE, ELEC COND | | | |
| 10 | 11 | 50 | 1010490-198 | INSULATION, SLEEVING ELEC | | | |
| | 12 | 1 | 1900975-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1.25 IN. DIA, 42 FT TOTAL LENGTH | | | |
| 10 | 13 | 1 | 1016128-011 | BAND-IDENTIFICATION | | | |
| 10 | 14 | 2 | 1016128-041 | BAND-IDENTIFICATION | | | |
| 10 | 15 | 5 | 1016006-002 | SPLICE REDUCER | | | |
| 10 | 16 | 5 | 1010490-258 | INSULATION-SLEEVING ELEC | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 | |
| | | | | SCALE-NONE | REV LTR B | SHEET 5 OF 17 | |

| | | | |
|---|-----------|-----|---|
| GIC | CABLE W11 | B | 1900975 |
| PENNA NT LIST OF MATERIALS | | | |
| NOTE | ITEM | QTY | PART NO DESCRIPTION |
| | 17 | AR | MIL-T-713 LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) |
| | 18 | | 1900975-006 WIRE COAXIAL MIL-C-17/69A RG 188 A/U 38 FT TOTAL LENGTH |
| 22 | 19 | 2 | 1897147-108,-112 CABLE CLAMP SLEEVE |
| | 20 | 2 | 1000243-006 FERRULE ELECT. COND |
| | 21 | 2 | 1000242-005 FERRULE ELECT. COND |
| 20 | 22 | | CONTACT PINS |
| 21 | 23 | | CONTACT SOCKETS |
| | 24 | 1 | 1900975-007 WIRE ND1002181, TYPE 3, CLASS 4, WHITE JACKET 20AWG, WHT-BLU, WHT-RED, WHT-YEL, 76 FT TOT. LG |
| | 25 | 1 | 1900975-008 ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE .50 DIA 2 FT TOTAL LENGTH |
| | 26 | 1 | M53127E24-61P (1897055-610) CONNECTOR |
| 10 | 27 | 2 | 1000243-015 FERRULE ELECT. COND |
| 10 | 28 | 2 | 1000243-016 FERRULE ELECT. COND |
| 10 | 29 | 2 | 1010490-194 INSULATION SLEEVING ELECT. |
| 10 | 30 | 2 | 1010490-196 INSULATION SLEEVING ELECT. |
| 10 | 31 | 1 | 1016282- 24 RUBBER GROMMET |
| <div><div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</div><div>SIZE A</div><div>1900975</div></div> <div><div>SCALE-NONE</div><div>REV LTR B</div><div>SHEET 6 OF 17</div></div> | | | |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------|------|----------------------|---------------|-------------|------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC |
| A 1 | 3 | | 230 200 | 7 8 | 5 | | 230 200 | A 11 | 7A |
| | | | | A 11 | | | | | |
| A 1A | 6 | SHLD A1 | 25N | | | E1 | 25N | | |
| A 1L | | P1-D | 19N | 23 | | P2-D | 19N | 22 | |
| A 1R | | P1-C | 19N | 23 | | P2-C | 19N | 22 | |
| A 2 | 3 | | 230 200 | 7 8 | 5 | | 230 200 | A 11 | 7A |
| | | | | A 11 | | | | | |
| A 2A | 6 | SHLD A2 | 25N | | | E1 | 25N | | |
| A 2L | | P1-F | 19N | 23 | | P2-F | 19N | 22 | |
| A 2R | | P1-E | 19N | 23 | | P2-E | 19N | 22 | |
| A 3 | 3 | | 230 200 | 7 8 | 5 | | 230 200 | A 11 | 7A |
| | | | | A 11 | | | | | |
| A 3A | 6 | SHLD A3 | 25N | | | E1 | 25N | | |
| A 3L | | P1-H | 19N | 23 | | P2-H | 19N | 22 | |
| A 3R | | P1-G | 19N | 23 | | P2-G | 19N | 22 | |
| A 4 | 3 | | 230 200 | 7 8 | 5 | | 230 200 | A 11 | 7A |
| | | | | A 11 | | | | | |
| A 4A | 6 | SHLD A4 | 25N | | | E1 | 25 | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900975

SCALE-NONE

REV LTR B

SHEET 7 OF 17

GIC

CABLE W11

B

1900975

| CONDUCTOR | | | FROM | | | TO | | | | |
|-------------------|----------|---|----------------------|-----|------------|----------------------|-----|-------------|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | | |
| | | | CIRCUIT POINT | 2 | 3 | CIRCUIT POINT | 2 | 3 | | |
| | | | TERMINATION SPEC | | | TERMINATION SPEC | | | | |
| | | | ITEM NO. | | | ITEM NO. | | | | |
| A 4L | | | P1-K | 19N | 23 | P2-K | 19 | 22 | | |
| A 4R | | | P1-J | 19N | 23 | P2-J | 19 | 22 | | |
| A 5 | 3 | | | 280 | 250 7 8 5 | | 280 | 250 A 11 7A | | |
| | | | | | A 11 | | | | | |
| A 5A | 6 | | SHLD A5 | 25N | | E1 | 25N | | | |
| A 5L | | | P1-M | 19N | 23 | P2-M | 19N | 22 | | |
| A 5R | | | P1-L | 19N | 23 | P2-L | 19N | 22 | | |
| A 6 | 3 | | | 280 | 250 7 8 5 | | 280 | 250 A 11 7A | | |
| | | | | | A 11 | | | | | |
| A 6A | 6 | | SHLD A6 | 25N | | E1 | 25N | | | |
| A 6L | | | P1-V | 19N | 23 | P2-V | 19N | 22 | | |
| A 6R | | | P1-U | 19N | 23 | P2-U | 19N | 22 | | |
| A 7 | 3 | | | 280 | 250 7 8 5 | | 280 | 250 A 11 7A | | |
| | | | | | A 11 | | | | | |
| A 7A | 6 | | SHLD A7 | 25N | | E2 | 25N | | | |
| A 7L | | | P1-FF | 19N | 23 | P2-FF | 19N | 22 | | |
| A 7R | | | P1-EE | 19N | 23 | P2-EE | 19N | 22 | | |
| A 8 | 4 | | | 280 | 250 10 9 9 | | 280 | 250 A 11 7A | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900975

SCALE-NONE

REV LTR

B

SHEET 8 OF

| GIC | | | | | | | | | | CABLE W11 | | | | | | | | | | B | | | | | | | | | | 1900975 | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|---------------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | |
| ITEM | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | |
| NUMBER NO | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | SPEC 1 NO | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 8A 6 | | | | | | | | | | SHLD A8 25N | | | | | | | | | | E2 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 8W | | | | | | | | | | P1-I* 19N 23 | | | | | | | | | | P2-I* 19N 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 9 4 | | | | | | | | | | 330 300 10 9 5 | | | | | | | | | | 330 300 A 11 7A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 9A 6 | | | | | | | | | | SHLD A9 25N | | | | | | | | | | E2 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 9W | | | | | | | | | | P1-J* 19N 23 | | | | | | | | | | P2-J* 19N 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 10 4 | | | | | | | | | | 330 300 10 9 5 | | | | | | | | | | 330 300 A 11 7A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 10A 6 | | | | | | | | | | SHLD A10 25N | | | | | | | | | | E2 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 10W | | | | | | | | | | P1-K* 19N 23 | | | | | | | | | | P2-K* 19N 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 11 4 | | | | | | | | | | 330 300 10 9 5 | | | | | | | | | | 330 300 A 11 7A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 11A 6 | | | | | | | | | | SHLD A11 25N | | | | | | | | | | E2 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 11W | | | | | | | | | | P1-M* 19N 23 | | | | | | | | | | P2-M* 19N 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12 4 | | | | | | | | | | 330 300 10 9 5 | | | | | | | | | | 330 300 A 11 7A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12A 6 | | | | | | | | | | SHLD A12 25N | | | | | | | | | | E2 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | | 1900975 | | | | | | | | | | | | | | | | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | SCALE-NONE | | | | | | | | | | REV LTR B | | | | | | | | | | SHEET 9 OF 17 | | | | | | | | | |

| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | | | | | | | |
|--|---|----------------------|-----|-----|----|---|---|--|--|--|--|---|-----|---------|------|----|--|--|--|--|--|--|--|
| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | |
| CIRCUIT POINT | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | |
| ITEM NO. | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | | |
| NO. | | NO. | | | | | | | | | | NO. | | | | | | | | | | | |
| A 12W | | P1-P | 19N | 23 | | | | | | | | P2-P | 19N | 22 | | | | | | | | | |
| A 13 | 4 | | 380 | 350 | 10 | 9 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | | | |
| A 13A | 6 | SHLD A13 | 25N | | | | | | | | | E3 | 25N | | | | | | | | | | |
| A 13W | | P1-N | 19N | 23 | | | | | | | | P2-N | 19N | 22 | | | | | | | | | |
| A 14 | 3 | | 380 | 350 | 8 | 9 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | | | |
| A 14A | 6 | SHLD A14 | 25N | | | | | | | | | E3 | 25N | | | | | | | | | | |
| A 14L | | P1-X | 19N | 23 | | | | | | | | P2-X | 19N | 22 | | | | | | | | | |
| A 14R | | P1-W | 19N | 23 | | | | | | | | P2-W | 19N | 22 | | | | | | | | | |
| A 15 | 3 | | 380 | 350 | 8 | 9 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | | | |
| A 15A | 6 | SHLD A15 | 25N | | | | | | | | | E3 | 25N | | | | | | | | | | |
| A 15L | | P1-Z | 19N | 23 | | | | | | | | P2-Z | 19N | 22 | | | | | | | | | |
| A 15R | | P1-Y | 19N | 23 | | | | | | | | P2-Y | 19N | 22 | | | | | | | | | |
| A 16 | 3 | | 380 | 350 | 7 | 8 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | | | |
| A 16A | 6 | SHLD A16 | 25N | | | | | | | | | E3 | 25N | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SIZE A | | | | | | | | | | | |
| | | | | | | | | | | | | 1900975 | | | | | | | | | | | |
| | | | | | | | | | | | | SCALE-NONE REV LTR B | | | | | | | | | | | |
| | | | | | | | | | | | | SHEET 10 OF 17 | | | | | | | | | | | |

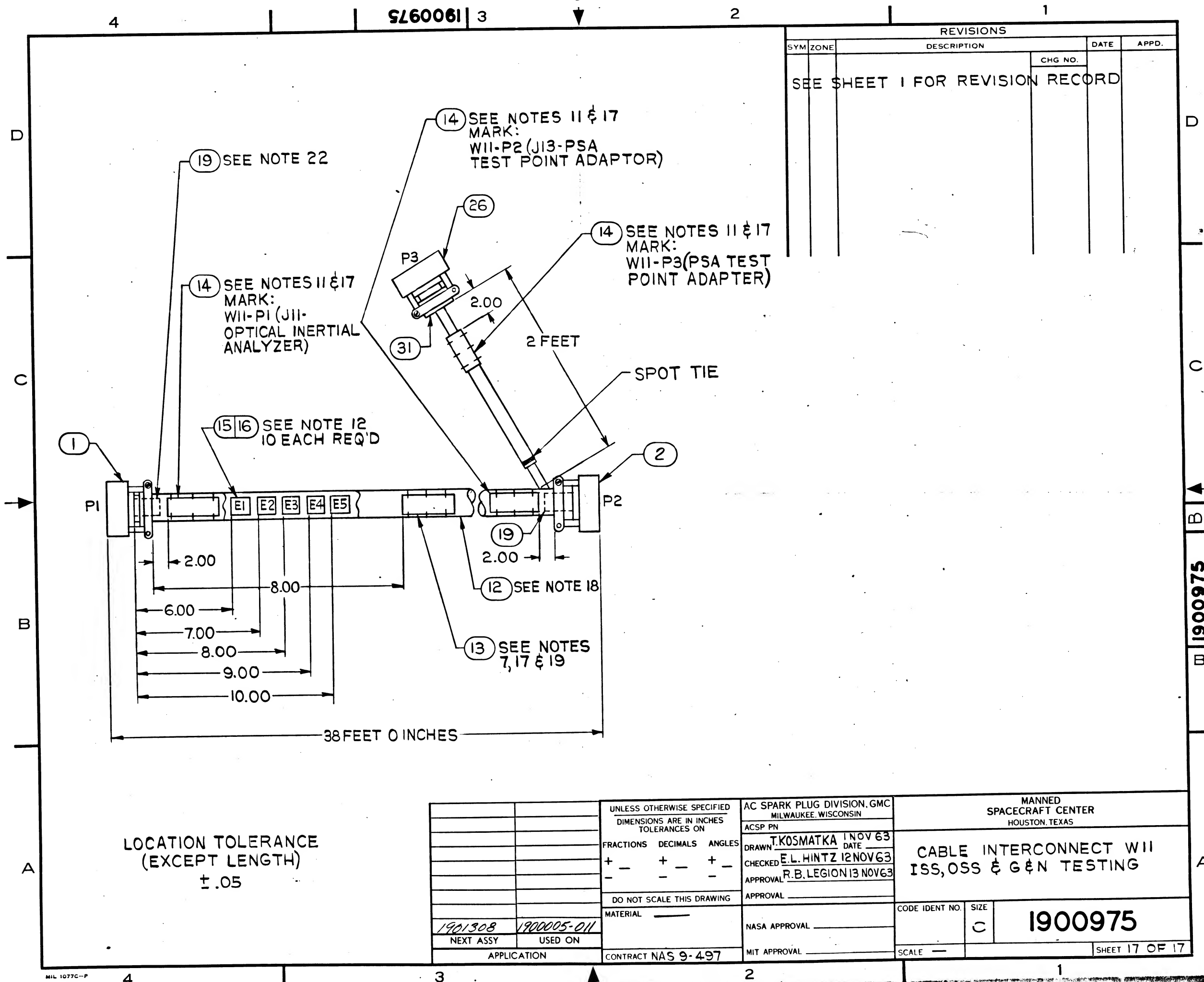
| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | | | | | | | | | |
|-------------------|---|-----------|----------------------|-----|-----|---|---|-------------|--|---|--|-------|----------------------|---------|------|----|--|-------------|--|--------------|--|-----------|--|-------------|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | | | |
| ITEM NO. 3 | | | STRIP WIRE OR JACKET | | | | | SPEC | | | | | STRIP WIRE OR JACKET | | | | | SPEC | | | | | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | | | NO. | | | | | CIRCUIT POINT | | | | | NO. | | | | | | | |
| ITEM NO. | | | ITEM NO. | | | | | ITEM NO. | | | | | ITEM NO. | | | | | ITEM NO. | | | | | | | |
| NO. | | | NO. | | | | | NO. | | | | | NO. | | | | | NO. | | | | | | | |
| A 16L | | | P1-B* | 19N | 23 | | | | | | | P2-B* | 19N | 22 | | | | | | | | | | | |
| A 16R | | | P1-A* | 19N | 23 | | | | | | | P2-A* | 19N | 22 | | | | | | | | | | | |
| A 17 | 3 | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 11 | 7A | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | |
| A 17A | 6 | | SHLD A17 | 25N | | | | | | | | E3 | 25N | | | | | | | | | | | | |
| A 17L | | | P1-D* | 19N | 23 | | | | | | | P2-D* | 19N | 22 | | | | | | | | | | | |
| A 17R | | | P1-C* | 19N | 23 | | | | | | | P2-C* | 19N | 22 | | | | | | | | | | | |
| A 18 | 3 | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 11 | 7A | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | |
| A 18A | 6 | | SHLD A18 | 25N | | | | | | | | E3 | 25N | | | | | | | | | | | | |
| A 18L | | | P1-R* | 19N | 23 | | | | | | | P2-R* | 19N | 22 | | | | | | | | | | | |
| A 18R | | | P1-Q* | 19N | 23 | | | | | | | P2-Q* | 19N | 22 | | | | | | | | | | | |
| A 19 | 3 | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 11 | 7A | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | |
| A 19A | 6 | | SHLD A19 | 25N | | | | | | | | E4 | 25N | | | | | | | | | | | | |
| A 19L | | | P1-T* | 19N | 23 | | | | | | | P2-T* | 19N | 22 | | | | | | | | | | | |
| A 19R | | | P1-S* | 19N | 23 | | | | | | | P2-S* | 19N | 22 | | | | | | | | | | | |
| A 20 | 3 | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 11 | 7A | | | | | | | | | |
| | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | | | | |
| | | | | | | | | | | | | | | | | | | | | A | | 1900975 | | | |
| | | | | | | | | | | | | | | | | | | | | SCALE - NONE | | REV LTR B | | SHEET 11 OF | |

| GIC CABLE W11 B 1900975 | | | | | | | | | |
|--|----------|-------------------|----------------------|-------------------|---|----------------------|-------------------|-----|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | |
| | | | CIRCUIT POINT | ITEM NO. | | CIRCUIT POINT | ITEM NO. | | |
| A 24 | 3 | | 480 450 7 8 5 | | | 480 450 A 11 7A | | | |
| | | | | A 11 | | | | | |
| A 24A | 6 | | SHLD A24 25N | | | E4 25N | | | |
| A 24L | | | P1-S 19N 23 | | | P2-S 19N 22 | | | |
| A 24R | | | P1-R 19N 23 | | | P2-R 19N 22 | | | |
| A 25 | 4 | | 530 500 9 10 5 | | | 530 500 A 11 7A | | | |
| | | | | A 11 | | | | | |
| A 25A | 6 | | SHLD A25 25N | | | E5 25N | | | |
| A 25M | | | P1-T 19N 23 | | | P2-T 19N 22 | | | |
| A 26 | | | DELETED | | | | | | |
| | | | DELETED | | | | | | |
| A 26A | | | DELETED | | | | | | |
| A 26L | | | DELETED | | | | | | |
| A 26R | | | DELETED | | | | | | |
| A 27 | | | DELETED | | | | | | |
| | | | DELETED | | | | | | |
| A 27A | | | DELETED | | | | | | |
| A 27L | | | DELETED | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SIZE A 1900975 | | | | |
| SCALE: NONE | | | | | REV LTR B SHEET 13 OF 17 | | | | |

| GIC CABLE W11 B 1900975 | | | | | | | | | |
|--|----------|-------------------|----------------------|-------------------|---|----------------------|-------------------|-----|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | |
| | | | CIRCUIT POINT | ITEM NO. | | CIRCUIT POINT | ITEM NO. | | |
| A 27R | | | DELETED | | | | | | |
| A 28 | | | DELETED | | | | | | |
| | | | DELETED | | | | | | |
| A 28A | | | DELETED | | | | | | |
| A 28L | | | DELETED | | | | | | |
| A 28R | | | DELETED | | | | | | |
| A 29 | | | DELETED | | | | | | |
| | | | DELETED | | | | | | |
| A 29A | | | DELETED | | | | | | |
| A 29L | | | DELETED | | | | | | |
| A 29R | | | DELETED | | | | | | |
| A 30 | | | DELETED | | | | | | |
| | | | DELETED | | | | | | |
| A 30A | | | DELETED | | | | | | |
| A 30M | | | DELETED | | | | | | |
| A 31 | | | DELETED | | | | | | |
| | | | DELETED | | | | | | |
| A 31A | | | DELETED | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SIZE A 1900975 | | | | |
| SCALE: NONE | | | | | REV LTR B SHEET 14 OF 17 | | | | |

| GIC CABLE W11 B 1900975 | | | | | | | | | |
|--|----------|-------------------|----------------------|-------------------|---|----------------------|-------------------|------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | |
| | | | CIRCUIT POINT | ITEM NO. | | CIRCUIT POINT | ITEM NO. | | |
| A 31M | | | DELETED | | | | | | |
| A 32 | 5 | | P1-GG 19N 23 | | | P2-GG 19N 22 | | | |
| A 33 | 6 | | P1-B 19N 23 | | | E1 25N | | | |
| A 34 | 6 | | E1 25N | | | E2 25N | | | |
| A 35 | 6 | | E2 25N | | | E3 25N | | | |
| A 36 | 6 | | E3 25N | | | E4 25N | | | |
| A 37 | 6 | | E4 25N | | | E5 25N | | | |
| A 38 | 18 | | 580 550 20 21 5 | | | 580 550 20 21 5 | | | |
| | | | | A 19 | | | | A 19 | |
| A 38A | 6 | | SHLD A38 25N | | | P1-S 19N 23 | | | |
| A 38B | 6 | | P2-S 19N 22 | | | SHLD A38 25N | | | |
| A 38M | | | P1-R 19N 23 | | | P2-R 19N 22 | | | |
| A 39 | 24 | | 480 450 27 28 5 | | | 480 450 A 30 7A | | | |
| | | | | A 29 | | | | | |
| A 39A | 6 | | SHLD A39 25N | | | E6 25N | | | |
| A 39L | | | P3-Y 19N | | | P2-H* 19N 22 | | | |
| A 39R | | | P3-W 19N | | | P2-G* 19N 22 | | | |
| A 39Y | | | P3-Z 19N | | | P2-F* 19N 22 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SIZE A 1900975 | | | | |
| SCALE: NONE | | | | | REV LTR B SHEET 15 OF 17 | | | | |

| GIC CABLE W11 B 1900975 | | | | | | | | | |
|--|----------|-------------------|----------------------|-------------------|---|----------------------|-------------------|-----|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | |
| | | | CIRCUIT POINT | ITEM NO. | | CIRCUIT POINT | ITEM NO. | | |
| A 40 | 24 | | 480 450 27 28 5 | | | 480 450 A 30 7A | | | |
| | | | | A 29 | | | | | |
| A 40A | 6 | | SHLD A40 25N | | | E6 25N | | | |
| A 40L | | | P3-V 19N | | | P2-P* 19N 22 | | | |
| A 40R | | | P3-U 19N | | | P2-V* 19N 22 | | | |
| A 40Y | | | P3-S 19N | | | P2-Z* 19N 22 | | | |
| A 41 | 3 | | 480 450 7 8 5 | | | 480 450 A 11 7A | | | |
| | | | | A 11 | | | | | |
| A 41A | 6 | | SHLD A41 25N | | | E6 25N | | | |
| A 41L | | | P3-B* 19N | | | P2-DD 19N 22 | | | |
| A 41R | | | P3-C* 19N | | | P2-CC 19N 22 | | | |
| A 42 | 5 | | E6 25N | | | P2-N* 19N | | | |
| A 43 | 5 | | P3-B 19N | | | E6 25N | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | SIZE A 1900975 | | | | |
| SCALE: NONE | | | | | REV LTR B SHEET 16 OF 17 | | | | |



| | | | |
|-----------------------------------|---|---|---------|
| GIC | CABLE W11 | C | 1900975 |
| PENNANT NOTE | GENERAL NOTES | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |

| | | |
|--|---------------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE - NONE | REV LTR | C |
| | | SHEET 2 OF 17 |

| GIC | CABLE W11 | 8 | 1900975 | | | | | | | | | |
|--|---|---------------|---------|--|---------------|---------|--------------|---------|---|--|--|---------------|
| ▼ | | | | | | | | | | | | |
| PENNANT | GENERAL NOTES | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER | | | | | | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR. | | | | | | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | | | | | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | | | | | | |
| 20 | ITEM 22 FURNISHED WITH ITEM 2 | | | | | | | | | | | |
| 21 | ITEM 23 FURNISHED WITH ITEM 1 | | | | | | | | | | | |
| 22 | ITEM 19 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 19 AS REQUIRED TO FIT. | | | | | | | | | | | |
| | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; text-align: center; vertical-align: top;"> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </td> <td style="width: 10%; text-align: center; vertical-align: top;"> SIZE A </td> <td style="width: 50%; text-align: center; vertical-align: top;"> 1900975 </td> </tr> <tr> <td style="text-align: center;">SCALE - NONE</td> <td style="text-align: center;">REV LTR</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">SHEET 3 OF 17</td> </tr> </table> | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 | SCALE - NONE | REV LTR | 8 | | | SHEET 3 OF 17 |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 | | | | | | | | | | |
| SCALE - NONE | REV LTR | 8 | | | | | | | | | | |
| | | SHEET 3 OF 17 | | | | | | | | | | |

| APPLICATION | | REVIEWS | | | |
|-------------|-------------|---------|---|-----------|---------------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1903005-011 | A | CHANGE IN ACCORDANCE WITH CM-193190 | FEB 19 64 | 89 <i>82</i> |
| 1904802 | | B | CHANGE IN ACCORDANCE WITH CM 197501 REVISED CUSTOMER DATA (V2-64) | MAY 27 64 | JJJ <i>88</i> |
| | | C | CHANGE IN ACCORDANCE WITH CM 19775C REVISED PER TDR 1122 | JUL 9 64 | HTB <i>83</i> |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1/7/64

| | | | | | | | | | | | | | | | | | | |
|------------|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| SHEET | | | | | | | | | | | | | | | | | | |
| REV STATUS | REV | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| OF SHEETS | SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN BY *L. J. Hines* DATE *1/10/64*

CHECKED BY *L. J. Hines* DATE *1/10/64*

APPROVAL *L. J. Hines* DATE *1/10/64*

APPROVAL *L. J. Hines* DATE *1/10/64*

SPACECRAFT CENTER
HOUSTON, TEXAS

MANNED

CABLE INTERCONNECT W/1
ISS, OSS, & G&N TESTING

| | | |
|----------------|---------|-----|
| CODE IDENT NO. | SIZE | REV |
| A | 1900975 | C |

CONTRACT NAS 8-197

MIT APPROVAL *L. J. Hines* DATE *1/10/64*

APPROVAL *L. J. Hines* DATE *1/10/64*

SCALE NONE

SHEET 1 OF 17

| GIC | CABLE W11 | B | 1900975 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------|-----------------|--|---------------|--|--|--|--|------------------|------|-----------------|------|---------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|--|-----------|-----------|-----------|-------------|-----------|--|--|--|--|
| PENNANT | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | <p>TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED —</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.</th> <th colspan="5">TOLERANCE</th> </tr> <tr> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | +2.00-.00 | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | REV LTR | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | SHEET 4 OF 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GIC CABLE W11 B 1900975

PENNANT LIST OF MATERIALS

| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
|------|------|-----|-----------------------------|---|
| | 17 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) |
| | 18 | | 1900975-006 | WIRE COAXIAL MIL-C-17/69A RG 188 A/U 38 FT TOTAL LENGTH |
| 22 | 19 | 2 | 1897147-108,-112 | CABLE CLAMP SLEEVE |
| | 20 | 2 | 1000243-006 | FERRULE ELECT. COND |
| | 21 | 2 | 1000242-005 | FERRULE ELECT. COND |
| 20 | 22 | | | CONTACT PINS |
| 21 | 23 | | | CONTACT SOCKETS |
| | 24 | 1 | 1900975-007 | WIRE ND1002181, TYPE 3, CLASS 4, WHITE JACKET 20AWG, WHT-BLU, WHT-RED, WHT-YEL, 76 FT TOT. LG |
| | 25 | 1 | 1900975-008 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE .50 DIA 2 FT TOTAL LENGTH |
| | 26 | 1 | MS3127E24-61P (1897055-610) | CONNECTOR |
| 10 | 27 | 2 | 1000243-015 | FERRULE ELECT. COND |
| 10 | 28 | 2 | 1000243-016 | FERRULE ELECT. COND |
| 10 | 29 | 2 | 1010490-194 | INSULATION SLEEVING ELECT. |
| 10 | 30 | 2 | 1010490-196 | INSULATION SLEEVING ELECT. |
| 10 | 31 | 1 | 1016282- 24 | RUBBER GROMMET |

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REV LTR

B

SHEET 6 OF 17

GIC CABLE W11 B 1900975

PENNANT LIST OF MATERIALS

| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
|------|------|-----|------------------------------|---|
| 16 | 1 | 1 | MS3126F22-55SW (1897046-551) | CONNECTOR PLUG |
| 16 | 2 | 1 | MS3126F22-55PW (1897045-551) | CONNECTOR PLUG |
| | 3 | 1 | 1900975-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 20AWG, WHT/BLU, WHT/RED 646 FT TOTAL LENGTH |
| | 4 | 1 | 1900975-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JAKT, 20AWG, 380 FT TOTAL LENGTH |
| | 5 | 1 | 1900975-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 38 FT TOTAL LENGTH |
| | 6 | 1 | 1900975-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, 32 FT TOTAL LENGTH |
| 10 | 7 | 17 | 1000243-011 | FERRULE, ELEC COND |
| 10 | 8 | 17 | 1000242-009 | FERRULE, ELEC COND |
| 10 | 9 | 10 | 1000243-005 | FERRULE, ELEC COND |
| 10 | 10 | 10 | 1000242-004 | FERRULE, ELEC COND |
| 10 | 11 | 50 | 1010490-198 | INSULATION, SLEEVING ELEC |
| | 12 | 1 | 1900975-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1.25 IN. DIA, 42 FT TOTAL LENGTH |
| 10 | 13 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 14 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 15 | 5 | 1016006-002 | SPLICE REDUCER |
| 10 | 16 | 5 | 1010490-258 | INSULATION-SLEEVING ELEC |

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CENTER
HOUSTON, TEXASSIZE
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1900975

SCALE-NONE

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SHEET 5 OF 17

GIC CABLE W11 B 1900975

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|----------------------|---------------|-------------|-------|----------------------|---------------|-------------|---------|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| A 1A | 6 | SHLD A1 | 25N | | | E1 | 25N | | |
| A 1L | | P1-D | 19N | 23 | | P2-D | 19N | 22 | |
| A 1R | | P1-C | 19N | 23 | | P2-C | 19N | 22 | |
| A 2 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| A 2A | 6 | SHLD A2 | 25N | | | E1 | 25N | | |
| A 2L | | P1-F | 19N | 23 | | P2-F | 19N | 22 | |
| A 2R | | P1-E | 19N | 23 | | P2-E | 19N | 22 | |
| A 3 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| A 3A | 6 | SHLD A3 | 25N | | | E1 | 25N | | |
| A 3L | | P1-H | 19N | 23 | | P2-H | 19N | 22 | |
| A 3R | | P1-G | 19N | 23 | | P2-G | 19N | 22 | |
| A 4 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| A 4A | 6 | SHLD A4 | 25N | | | E1 | 25 | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.MANNED
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A

1900975

SCALE-NONE

REV LTR

B

SHEET 7 OF 17

GIC CABLE W11 B 1900975

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|----------------------|---------------|-------------|--------|----------------------|---------------|-------------|---------|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 4L | | P1-K | 19N | 23 | | P2-K | 19 | 22 | |
| A 4R | | P1-J | 19N | 23 | | P2-J | 19 | 22 | |
| A 5 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| A 5A | 6 | SHLD A5 | 25N | | | E1 | 25N | | |
| A 5L | | P1-M | 19N | 23 | | P2-M | 19N | 22 | |
| A 5R | | P1-L | 19N | 23 | | P2-L | 19N | 22 | |
| A 6 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| A 6A | 6 | SHLD A6 | 25N | | | E1 | 25N | | |
| A 6L | | P1-V | 19N | 23 | | P2-V | 19N | 22 | |
| A 6R | | P1-U | 19N | 23 | | P2-U | 19N | 22 | |
| A 7 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| A 7A | 6 | SHLD A7 | 25N | | | E2 | 25N | | |
| A 7L | | P1-FF | 19N | 23 | | P2-FF | 19N | 22 | |
| A 7R | | P1-EE | 19N | 23 | | P2-EE | 19N | 22 | |
| A 8 | 4 | | 280 | 250 | 10 9 5 | | 280 | 250 | A 11 7A |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.MANNED
SPACECRAFT
CENTER
HOUSTON, TEXASSIZE
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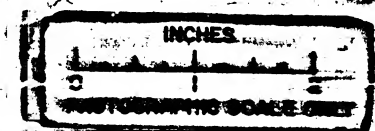
1900975

SCALE-NONE

REV LTR

B

SHEET 8 OF 17



| GIC | | | | | | | | | | CABLE W11 | | | | | | | | | | B | | | | | | | | | | 1900975 | | | | | | | | | |
|--|---|---------------|--|--------------------|--|-----|-----|------|-------------------|---|---|------|---|--------------------|-----|----------|----|---|-------------------|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | CIRCUIT POINT | | T | | N | | | ITEM NO. | | T | | N | | | ITEM NO. | | T | | N | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12W | | | | P1-P | | 19N | | 23 | | | | P2-P | | 19N | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| A 13 | 4 | | | | | 380 | 350 | 10 | 9 | 5 | | | | 380 | 350 | A 11 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 13A | 6 | | | SHLD A13 | | 25N | | | | | | E3 | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 13W | | | | P1-N | | 19N | | 23 | | | | P2-N | | 19N | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| A 14 | 3 | | | | | 380 | 350 | 8 | 9 | 5 | | | | 380 | 350 | A 11 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 14A | 6 | | | SHLD A14 | | 25N | | | | | | E3 | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 14L | | | | P1-X | | 19N | | 23 | | | | P2-X | | 19N | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| A 14R | | | | P1-W | | 19N | | 23 | | | | P2-W | | 19N | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| A 15 | 3 | | | | | 380 | 350 | 8 | 9 | 5 | | | | 380 | 350 | A 11 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 15A | 6 | | | SHLD A15 | | 25N | | | | | | E3 | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 15L | | | | P1-Z | | 19N | | 23 | | | | P2-Z | | 19N | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| A 15R | | | | P1-Y | | 19N | | 23 | | | | P2-Y | | 19N | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| A 16 | 3 | | | | | 380 | 350 | 7 | 8 | 5 | | | | 380 | 350 | A 11 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16A | 6 | | | SHLD A16 | | 25N | | | | | | E3 | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | | 1900975 | | | | | | | | | |
| | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | 8 | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|----------------------|--|----------------|--|--|--|--|--|--|--|--|--|
| GIC | | | | | | | | | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | | |
| A 16L | | | | | | | | | | P1-B* | | | | | | | | | | P2-B* | | | | | | | | | | | |
| A 16R | | | | | | | | | | P1-A* | | | | | | | | | | P2-A* | | | | | | | | | | | |
| A 17 3 | | | | | | | | | | 430 400 7 8 5 | | | | | | | | | | 430 400 A 11 7A | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | |
| A 17A 6 | | | | | | | | | | SHLD A17 | | | | | | | | | | E3 | | | | | | | | | | | |
| A 17L | | | | | | | | | | P1-D* | | | | | | | | | | P2-D* | | | | | | | | | | | |
| A 17R | | | | | | | | | | P1-C* | | | | | | | | | | P2-C* | | | | | | | | | | | |
| A 18 3 | | | | | | | | | | 430 400 7 8 5 | | | | | | | | | | 430 400 A 11 7A | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | |
| A 18A 6 | | | | | | | | | | SHLD A18 | | | | | | | | | | E3 | | | | | | | | | | | |
| A 18L | | | | | | | | | | P1-R* | | | | | | | | | | P2-R* | | | | | | | | | | | |
| A 18R | | | | | | | | | | P1-Q* | | | | | | | | | | P2-Q* | | | | | | | | | | | |
| A 19 3 | | | | | | | | | | 430 400 7 8 5 | | | | | | | | | | 430 400 A 11 7A | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | |
| A 19A 6 | | | | | | | | | | SHLD A19 | | | | | | | | | | E4 | | | | | | | | | | | |
| A 19L | | | | | | | | | | P1-T* | | | | | | | | | | P2-T* | | | | | | | | | | | |
| A 19R | | | | | | | | | | P1-S* | | | | | | | | | | P2-S* | | | | | | | | | | | |
| A 20 3 | | | | | | | | | | 430 400 7 8 5 | | | | | | | | | | 430 400 A 11 7A | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | 1900975 | | | | | | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR B | | SHEET 11 OF 17 | | | | | | | | | |

| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | | | | | | | | | |
|---|-----|-----------|--|----------------------|--|-----|--|-----|-------------------|----------|--|--|-----|--------------------|----|---------|--|--------------|-------------------|-----|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | T | | N | | ITEM NO. | | STRIP WIRE OR JACKET | | T | | N | | ITEM NO. | | NO. | | | | | |
| | | | | CIRCUIT POINT | | | | | | | | CIRCUIT POINT | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A | 8A | 6 | | SHLD A8 | | 25N | | | | | | E2 | 25N | | | | | | | | | | | | |
| A | 8W | | | P1-I* | | 19N | | 23 | | | | P2-I* | 19N | | 22 | | | | | | | | | | |
| A | 9 | 4 | | | | 330 | | 300 | | 10 9 5 | | | | 330 | | 300 | | A 11 | | 7A | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A | 9A | 6 | | SHLD A9 | | 25N | | | | | | E2 | 25N | | | | | | | | | | | | |
| A | 9W | | | P1-J* | | 19N | | 23 | | | | P2-J* | 19N | | 22 | | | | | | | | | | |
| A | 10 | 4 | | | | 330 | | 300 | | 10 9 5 | | | | 330 | | 300 | | A 11 | | 7A | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A | 10A | 6 | | SHLD A10 | | 25N | | | | | | E2 | 25N | | | | | | | | | | | | |
| A | 10W | | | P1-K* | | 19N | | 23 | | | | P2-K* | 19N | | 22 | | | | | | | | | | |
| A | 11 | 4 | | | | 330 | | 300 | | 10 9 5 | | | | 330 | | 300 | | A 11 | | 7A | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A | 11A | 6 | | SHLD A11 | | 25N | | | | | | E2 | 25N | | | | | | | | | | | | |
| A | 11W | | | P1-M* | | 19N | | 23 | | | | P2-M* | 19N | | 22 | | | | | | | | | | |
| A | 12 | 4 | | | | 330 | | 300 | | 10 9 5 | | | | 330 | | 300 | | A 11 | | 7A | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A | 12A | 6 | | SHLD A12 | | 25N | | | | | | E2 | 25N | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900975 | | | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR | | B | | SHEET 9 OF 1 | | | | | | | |

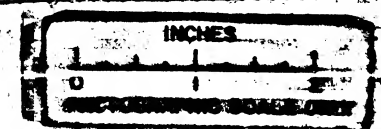
| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | | | | | | | |
|-------------------|--|--------------------|--|--|--|--|-------------|--|--|--|--|--------------------|--|---------|--|--|-------------|--|--|--|--|--|--|
| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | | |

| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | |
|---|----------|-----------|----------------------|--|--|-------------------|--|----------------------|-----------|-------------------|---------|----------|----------------|---------|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | | | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | | | | NO. | STRIP WIRE OR JACKET | | | | NO. | | | |
| | | | CIRCUIT POINT | | | | ITEM NO. | CIRCUIT POINT | | | | ITEM NO. | | | |
| A 27R | | | DELETED | | | | | | | | | | | | |
| A 28 | | | DELETED | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | |
| A 28A | | | DELETED | | | | | | | | | | | | |
| A 28L | | | DELETED | | | | | | | | | | | | |
| A 28R | | | DELETED | | | | | | | | | | | | |
| A 29 | | | DELETED | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | |
| A 29A | | | DELETED | | | | | | | | | | | | |
| A 29L | | | DELETED | | | | | | | | | | | | |
| A 29R | | | DELETED | | | | | | | | | | | | |
| A 30 | | | DELETED | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | |
| A 30A | | | DELETED | | | | | | | | | | | | |
| A 30W | | | DELETED | | | | | | | | | | | | |
| A 31 | | | DELETED | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | |
| A 31A | | | DELETED | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900975 | | | | |
| | | | | | | | SCALE - NONE | | REV LTR | | B | | SHEET 14 OF 17 | | |

| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | |
|---|----------|-----------|--------------------|-----|-------------------|-------|-----|--|----------------------|-----------|-------------------|----------------|----------|---------|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | |
| STRIP WIRE OR JACKET | | | CIRCUIT POINT | | ITEM NO. | | NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | |
| NUMBER | ITEM NO. | | | | | | | | | | | | | | |
| A 31W | | | DELETED | | | | | | | | | | | | |
| A 32 | 5 | | P1-GG | 19N | 23 | | | | P2-GG | 19N | 22 | | | | |
| A 33 | 6 | | P1-B | 19N | 23 | | | | E1 | 25N | | | | | |
| A 34 | 6 | | E1 | 25N | | | | | E2 | 25N | | | | | |
| A 35 | 6 | | E2 | 25N | | | | | E3 | 25N | | | | | |
| A 36 | 6 | | E3 | 25N | | | | | E4 | 25N | | | | | |
| A 37 | 6 | | E4 | 25N | | | | | E5 | 25N | | | | | |
| A 38 | 18 | | | 580 | 550 | 20 21 | 5 | | | 580 | 550 | 20 21 | 5 | | |
| | | | | | | A 19 | | | | | | A 19 | | | |
| A 38A | 6 | | SHLD A38 | 25N | | | | | P1-S | 19N | 23 | | | | |
| A 38B | 6 | | P2-S | 19N | 22 | | | | SHLD A38 | 25N | | | | | |
| A 38W | | | P1-R | 19N | 23 | | | | P2-R | 19N | 22 | | | | |
| A 39 | 24 | | | 480 | 450 | 27 28 | 5 | | | 480 | 450 | A 30 | 7A | | |
| | | | | | | A 29 | | | | | | | | | |
| A 39A | 6 | | SHLD A39 | 25N | | | | | E6 | 25N | | | | | |
| A 39L | | | P3-Y | 19N | | | | | P2-H* | 19N | 22 | | | | |
| A 39R | | | P3-W | 19N | | | | | P2-G* | 19N | 22 | | | | |
| A 39Y | | | P3-Z | 19N | | | | | P2-F* | 19N | 22 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900975 | | | |
| | | | | | | | | SCALE - NONE | | REV LTR B | | SHEET 15 OF 17 | | | |

| GIC | | CABLE W11 | | | | | | | | | | C | | 1900975 | | | | | | | | | | |
|---|----------|-----------|----------------------|--|--|--|--|-------------------|-----|--|----|---|----------------------|---------|-----------|-----|----|-------------------|-----|---------|----|--|--|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | |
| NUMBER | ITEM NO. | 2 | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | | |
| | | | ITEM NO. | | | | | NO. | | | | | ITEM NO. | | | | | NO. | | | | | | |
| A 24 | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 24A | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 24L | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 24R | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 25 | 4 | | | | | | | 530 | 500 | 9 | 10 | 5 | | | | | | 530 | 500 | A 11 | 7A | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| A 25A | 6 | | SHLD A25 | | | | | 25N | | | | | | E5 | 25N | | | | | | | | | |
| A 25W | | | P1-T | | | | | 19N | 23 | | | | | | P2-T | 19N | 22 | | | | | | | |
| A 26 | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 26A | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 26L | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 26R | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 27 | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 27A | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| A 27L | | | DELETED | | | | | | | | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | SIZE A | | | | | 1900975 | | | | |
| | | | | | | | | | | SCALE - NONE | | | | | REV LTR | | | | | C | | | | |

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| GIC | | | | | | | | | | CABLE W11 | | | | | | | | | | B | 1900975 | | | | | | | | | |
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | | | | | |
| STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | NO. | | | | | | | | |
| A 40 | 24 | | | 480 | 450 | 27 | 28 | 5 | | | 480 | 450 | A 30 | 7A | | | | | | | | | | | | | | | | |
| | | | | A 29 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 40A | 6 | | SHLD A40 | 25N | | | | | E6 | | 25N | | | | | | | | | | | | | | | | | | | |
| A 40L | | | P3-V | 19N | | | | | P2-P* | | 19N | | 22 | | | | | | | | | | | | | | | | | |
| A 40R | | | P3-U | 19N | | | | | P2-Y* | | 19N | | 22 | | | | | | | | | | | | | | | | | |
| A 40Y | | | P3-S | 19N | | | | | P2-Z* | | 19N | | 22 | | | | | | | | | | | | | | | | | |
| A 41 | 3 | | | 480 | 450 | 7 | 8 | 5 | | | 480 | 450 | A 11 | 7A | | | | | | | | | | | | | | | | |
| | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 41A | 6 | | SHLD A41 | 25N | | | | | E6 | | 25N | | | | | | | | | | | | | | | | | | | |
| A 41L | | | P3-B* | 19N | | | | | P2-DD | | 19N | | 22 | | | | | | | | | | | | | | | | | |
| A 41R | | | P3-C* | 19N | | | | | P2-CC | | 19N | | 22 | | | | | | | | | | | | | | | | | |
| A 42 | 5 | | E6 | 25N | | | | | P2-N* | | 19N | | | | | | | | | | | | | | | | | | | |
| A 43 | 5 | | P3-B | 19N | | | | | E6 | | 25N | | | | | | | | | | | | | | | | | | | |
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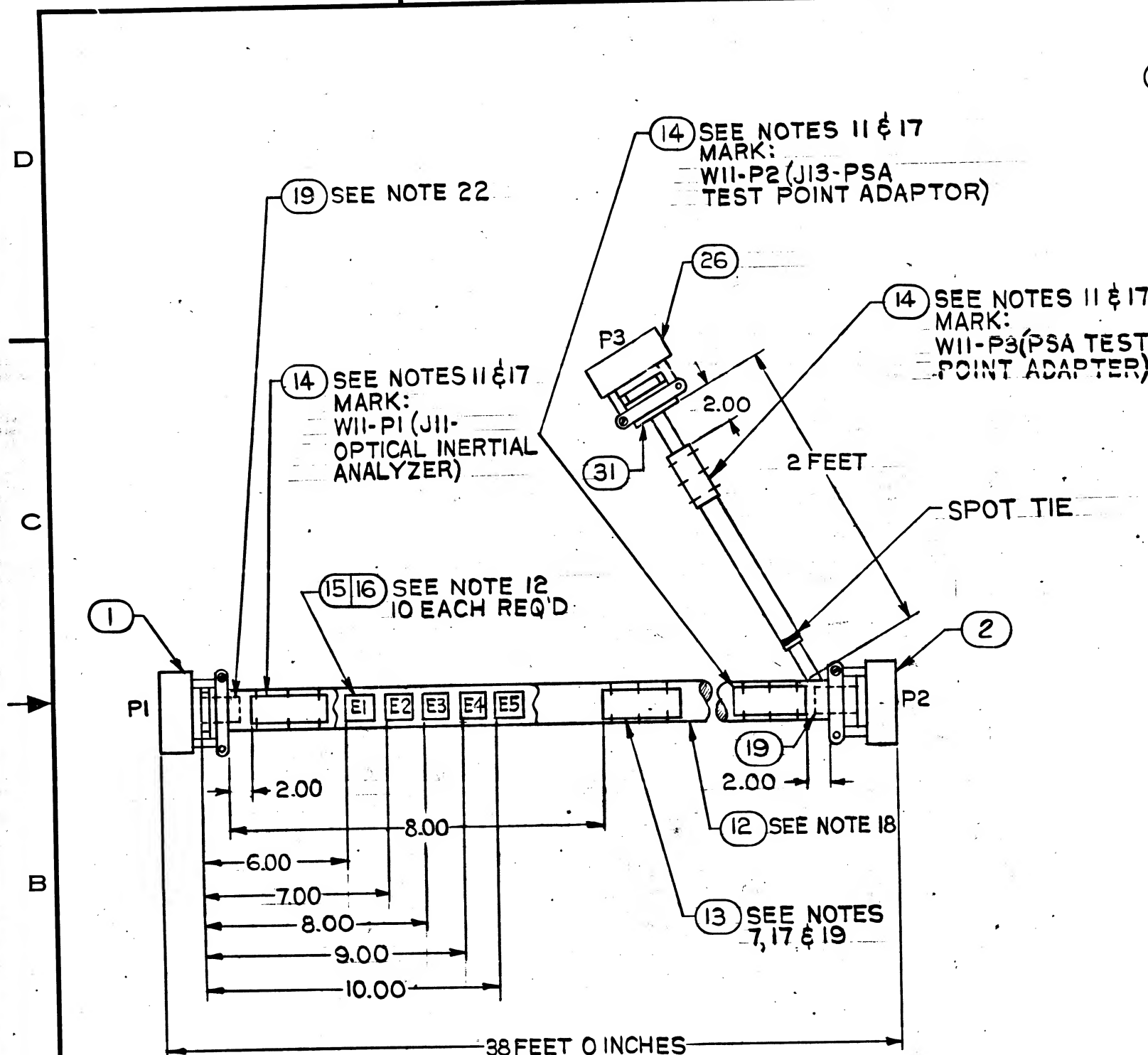


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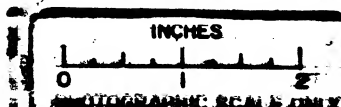
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| REVISIONS | | | | |
|-----------|------|---------------------------------|------|-------|
| SYM | ZONE | DESCRIPTION | DATE | APPD. |
| (M) | | SEE SHEET 1 FOR REVISION RECORD | | |



LOCATION TOLERANCE
(EXCEPT LENGTH)
±.05

| | | | | | | | |
|-------------|--|---|--|---|--|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | ACSP PN | | DATE | |
| | | + - + - + - | | DRAWN T.KOSMATKA | | 1 NOV 63 | |
| | | DO NOT SCALE THIS DRAWING | | CHECKED E.L.HINTZ | | 12 NOV 63 | |
| | | MATERIAL | | APPROVAL R.B.LEGION | | 13 NOV 63 | |
| 1901308 | | 1900005-011 | | APPROVAL | | 9/11/64 | |
| NEXT ASSY | | USED ON | | NASA APPROVAL | | 9/11/64 | |
| APPLICATION | | CONTRACT NAS 9-497 | | MIT APPROVAL | | 9/11/64 | |
| | | | | CODE IDENT NO. | | SIZE | |
| | | | | | | C | |
| | | | | | | 1900975 | |
| | | | | SCALE | | SHEET 17 OF 17 | |



[illegible]

| | | | |
|--|---|-----------|---------------|
| GIC | CABLE W11 | C | 1900975 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR C | SHEET 2 OF 17 |

| | | | |
|--|---|-----------|---------------|
| GIC | CABLE W11 | B | 1900975 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | ITEM 22 FURNISHED WITH ITEM 2 | | |
| 21 | ITEM 23 FURNISHED WITH ITEM 1 | | |
| 22 | ITEM 19 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 19 AS REQUIRED TO FIT. | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR B | SHEET 3 OF 17 |

| | | | |
|--|---------------|-----------|---------------|
| GIC | CABLE W11 | B | 1900975 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | |
| OVER 6 FEET +2.00-.00 | | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR B | SHEET 4 OF 17 |

| | | | |
|--|-------------------|------------------------------|---|
| GIC | CABLE W11 | D | 1900975 |
| PENNANT | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 16 | 1 1 | MS3126F22-55SW (1897046-551) | CONNECTOR PLUG |
| 16 | 2 1 | MS3126F22-55PW (1897045-551) | CONNECTOR PLUG |
| 3 | 1 | 1900975-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 20AWG, WHT/BLU, WHT/RED 646 FT TOTAL LENGTH |
| 4 | 1 | 1900975-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JAKT, 20AWG, 380 FT TOTAL LENGTH |
| 5 | 1 | 1900975-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 38 FT TOTAL LENGTH |
| 6 | 1 | 1900975-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, 32 FT TOTAL LENGTH |
| 10 | 7 17 | 1000243-011 | FERRULE, ELEC COND |
| 10 | 8 17 | 1000242-009 | FERRULE, ELEC COND |
| 10 | 9 10 | 1000243-005 | FERRULE, ELEC COND |
| 10 | 10 10 | 1000242-004 | FERRULE, ELEC COND |
| 10 | 11 50 | 1010490-198 | INSULATION, SLEEVING ELEC |
| 12 | 1 | 1900975-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1.25 IN. DIA, 42 FT TOTAL LENGTH |
| 10 | 13 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 14 3 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 15 5 | 1016006-002 | SPLICE REDUCER |
| 10 | 16 5 | 1010490-258 | INSULATION-SLEEVING ELEC |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR D | SHEET 5 OF 17 |

GIC CABLE W11 # D 1900975

| LIST OF MATERIALS | | | | |
|-------------------|----------|-----------------------------|---|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 17 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) | |
| | 18 | 1900975-006 | WIRE COAXIAL MIL-C-17/69A RG 188 A/U 38 FT TOTAL LENGTH | |
| 22 | 19 2 | 1897147-108--112 | CABLE CLAMP SLEEVE | |
| | 20 2 | 1000243-006 | FERRULE ELECT. COND | |
| | 21 2 | 1000242-005 | FERRULE ELECT. COND | |
| 20 | 22 | | CONTACT PINS | |
| 21 | 23 | | CONTACT SOCKETS | |
| | 24 1 | 1900975-007 | WIRE ND1002181, TYPE 3, CLASS 4, WHITE JACKET 20AWG, WHT-BLU, WHT-RED, WHT-YEL, 76 FT TOT. LG | |
| | 25 1 | 1900975-008 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE .50 DIA 2 FT TOTAL LENGTH | |
| | 26 1 | MS3127E24-61P (1897055-610) | CONNECTOR | |
| 10 | 27 2 | 1000243-015 | FERRULE ELECT. COND | |
| 10 | 28 2 | 1000243-016 | FERRULE ELECT. COND | |
| 10 | 29 2 | 1010490-194 | INSULATION SLEEVING ELECT. | |
| 10 | 30 2 | 1010490-196 | INSULATION SLEEVING ELECT. | |
| | 31 | 1010490-194 | RUBBER GROMMET DELETED | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE
REV LTR # D
SHEET 6 OF 17

GIC CABLE W11 B 1900975

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|----------------------|-------------------|----------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| CIRCUIT POINT | 2 | 3 | 4 | CIRCUIT POINT | 2 |
| A 1 3 | | 230 200 7 8 5 | A 11 | 230 200 A 11 7A | |
| A 1A 6 | SHLD A1 | 25N | | E1 | 25N |
| A 1L | P1-D | 19N 23 | | P2-D | 19N 22 |
| A 1R | P1-C | 19N 23 | | P2-C | 19N 22 |
| A 2 3 | | 230 200 7 8 5 | A 11 | 230 200 A 11 7A | |
| A 2A 6 | SHLD A2 | 25N | | E1 | 25N |
| A 2L | P1-F | 19N 23 | | P2-F | 19N 22 |
| A 2R | P1-E | 19N 23 | | P2-E | 19N 22 |
| A 3 3 | | 230 200 7 8 5 | A 11 | 230 200 A 11 7A | |
| A 3A 6 | SHLD A3 | 25N | | E1 | 25N |
| A 3L | P1-H | 19N 23 | | P2-H | 19N 22 |
| A 3R | P1-G | 19N 23 | | P2-G | 19N 22 |
| A 4 3 | | 230 200 7 8 5 | A 11 | 230 200 A 11 7A | |
| A 4A 6 | SHLD A4 | 25N | | E1 | 25N |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE
REV LTR B
SHEET 7 OF 17

GIC CABLE W11 B 1900975

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|----------------------|-------------------|----------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| CIRCUIT POINT | 2 | 3 | 4 | CIRCUIT POINT | 2 |
| A 4L | P1-K | 19N 23 | | P2-K | 19N 22 |
| A 4R | P1-J | 19N 23 | | P2-J | 19N 22 |
| A 5 3 | | 280 250 7 8 5 | A 11 | 280 250 A 11 7A | |
| A 5A 6 | SHLD A5 | 25N | | E1 | 25N |
| A 5L | P1-M | 19N 23 | | P2-M | 19N 22 |
| A 5R | P1-L | 19N 23 | | P2-L | 19N 22 |
| A 6 3 | | 280 250 7 8 5 | A 11 | 280 250 A 11 7A | |
| A 6A 6 | SHLD A6 | 25N | | E1 | 25N |
| A 6L | P1-V | 19N 23 | | P2-V | 19N 22 |
| A 6R | P1-U | 19N 23 | | P2-U | 19N 22 |
| A 7 3 | | 280 250 7 8 5 | A 11 | 280 250 A 11 7A | |
| A 7A 6 | SHLD A7 | 25N | | E2 | 25N |
| A 7L | P1-FF | 19N 23 | | P2-FF | 19N 22 |
| A 7R | P1-EE | 19N 23 | | P2-EE | 19N 22 |
| A 8 4 | | 280 250 10 9 5 | A 11 | 280 250 A 11 7A | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE
REV LTR B
SHEET 8 OF 17

GIC CABLE W11 B 1900975

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|----------------------|-------------------|----------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| CIRCUIT POINT | 2 | 3 | 4 | CIRCUIT POINT | 2 |
| A 8A 6 | SHLD A8 | 25N | | E2 | 25N |
| A 8W | P1-I* | 19N 23 | | P2-I* | 19N 22 |
| A 9 4 | | 330 300 10 9 5 | A 11 | 330 300 A 11 7A | |
| A 9A 6 | SHLD A9 | 25N | | E2 | 25N |
| A 9W | P1-J* | 19N 23 | | P2-J* | 19N 22 |
| A 10 4 | | 330 300 10 9 5 | A 11 | 330 300 A 11 7A | |
| A 10A 6 | SHLD A10 | 25N | | E2 | 25N |
| A 10W | P1-K* | 19N 23 | | P2-K* | 19N 22 |
| A 11 4 | | 330 300 10 9 5 | A 11 | 330 300 A 11 7A | |
| A 11A 6 | SHLD A11 | 25N | | E2 | 25N |
| A 11W | P1-M* | 19N 23 | | P2-M* | 19N 22 |
| A 12 4 | | 330 300 10 9 5 | A 11 | 330 300 A 11 7A | |
| A 12A 6 | SHLD A12 | 25N | | E2 | 25N |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE
REV LTR B
SHEET 9 OF 17

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|---|----------------------|-----|-----|----|---|-------------|--|--|--|--|---|-----|-----|------|----|-------------|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | | SPEC. 1 | | | | | STRIP WIRE OR JACKET | | | | | SPEC. 1 | | | | |
| NUMBER | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| A 12W | | P1-P | 19N | 23 | | | | | | | | P2-P | 19N | 22 | | | | | | | |
| A 13 | 4 | | 380 | 350 | 10 | 9 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 13A | 6 | SHLD A13 | 25N | | | | | | | | | E3 | 25N | | | | | | | | |
| A 13W | | P1-N | 19N | 23 | | | | | | | | P2-N | 19N | 22 | | | | | | | |
| A 14 | 3 | | 380 | 350 | 8 | 9 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 14A | 6 | SHLD A14 | 25N | | | | | | | | | E3 | 25N | | | | | | | | |
| A 14L | | P1-X | 19N | 23 | | | | | | | | P2-X | 19N | 22 | | | | | | | |
| A 14R | | P1-W | 19N | 23 | | | | | | | | P2-W | 19N | 22 | | | | | | | |
| A 15 | 3 | | 380 | 350 | 8 | 9 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 15A | 6 | SHLD A15 | 25N | | | | | | | | | E3 | 25N | | | | | | | | |
| A 15L | | P1-Z | 19N | 23 | | | | | | | | P2-Z | 19N | 22 | | | | | | | |
| A 15R | | P1-Y | 19N | 23 | | | | | | | | P2-Y | 19N | 22 | | | | | | | |
| A 16 | 3 | | 380 | 350 | 7 | 8 | 5 | | | | | | 380 | 350 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 16A | 6 | SHLD A16 | 25N | | | | | | | | | E3 | 25N | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SCALE - NONE REV LTR B SHEET 10 OF 17 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|---|----------------------|-----|-----|---|---|-------------|--|--|--|--|---|-----|-----|------|----|-------------|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | | SPEC. 1 | | | | | STRIP WIRE OR JACKET | | | | | SPEC. 1 | | | | |
| NUMBER | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| A 16L | | P1-B* | 19N | 23 | | | | | | | | P2-B* | 19N | 22 | | | | | | | |
| A 16R | | P1-A* | 19N | 23 | | | | | | | | P2-A* | 19N | 22 | | | | | | | |
| A 17 | 3 | | 430 | 400 | 7 | 8 | 5 | | | | | | 430 | 400 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 17A | 6 | SHLD A17 | 25N | | | | | | | | | E3 | 25N | | | | | | | | |
| A 17L | | P1-D* | 19N | 23 | | | | | | | | P2-D* | 19N | 22 | | | | | | | |
| A 17R | | P1-C* | 19N | 23 | | | | | | | | P2-C* | 19N | 22 | | | | | | | |
| A 18 | 3 | | 430 | 400 | 7 | 8 | 5 | | | | | | 430 | 400 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 18A | 6 | SHLD A18 | 25N | | | | | | | | | E3 | 25N | | | | | | | | |
| A 18L | | P1-R* | 19N | 23 | | | | | | | | P2-R* | 19N | 22 | | | | | | | |
| A 18R | | P1-Q* | 19N | 23 | | | | | | | | P2-Q* | 19N | 22 | | | | | | | |
| A 19 | 3 | | 430 | 400 | 7 | 8 | 5 | | | | | | 430 | 400 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 19A | 6 | SHLD A19 | 25N | | | | | | | | | E4 | 25N | | | | | | | | |
| A 19L | | P1-T* | 19N | 23 | | | | | | | | P2-T* | 19N | 22 | | | | | | | |
| A 19R | | P1-S* | 19N | 23 | | | | | | | | P2-S* | 19N | 22 | | | | | | | |
| A 20 | 3 | | 430 | 400 | 7 | 8 | 5 | | | | | | 430 | 400 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SCALE - NONE REV LTR B SHEET 11 OF 17 | | | | | | | | | |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--|---|----------------------|-----|-----|---|----|-------------|--|--|--|--|---|-----|-----|------|----|-------------|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | | SPEC. 1 | | | | | STRIP WIRE OR JACKET | | | | | SPEC. 1 | | | | |
| NUMBER | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 20A | 6 | SHLD A20 | 25N | | | | | | | | | E4 | 25N | | | | | | | | |
| A 20L | | P1-V* | 19N | 23 | | | | | | | | P2-V* | 19N | 22 | | | | | | | |
| A 20R | | P1-U* | 19N | 23 | | | | | | | | P2-U* | 19N | 22 | | | | | | | |
| A 21 | 3 | | 480 | 450 | 7 | 8 | 5 | | | | | | 480 | 450 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 21A | 6 | SHLD A21 | 25N | | | | | | | | | E4 | 25N | | | | | | | | |
| A 21L | | P1-X* | 19N | 23 | | | | | | | | P2-X* | 19N | 22 | | | | | | | |
| A 21R | | P1-W* | 19N | 23 | | | | | | | | P2-W* | 19N | 22 | | | | | | | |
| A 22 | 3 | | 480 | 450 | 7 | 8 | 5 | | | | | | 480 | 450 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 22A | 6 | SHLD A22 | 25N | | | | | | | | | E4 | 25N | | | | | | | | |
| A 22L | | P1-BB | 19N | 23 | | | | | | | | P2-BB | 19N | 22 | | | | | | | |
| A 22R | | P1-AA | 19N | 23 | | | | | | | | P2-AA | 19N | 22 | | | | | | | |
| A 23 | 4 | | 480 | 450 | 9 | 10 | 5 | | | | | | 480 | 450 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | |
| A 23A | 6 | SHLD A23 | 25N | | | | | | | | | E4 | 25N | | | | | | | | |
| A 23W | | P1-A | 19N | 23 | | | | | | | | P2-A | 19N | 22 | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SCALE - NONE REV LTR D SHEET 12 OF 17 | | | | | | | | | |

GIC

CABLE W11

C

1900975

| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|---|--|----------------------|-----|-----|---|------|-------------------|--|--|--|--|----------------------|-----|-----|------|----|-------------------|--|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | |
| NUMBER | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | |
| A 24 | | | DELETED | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 24A | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 24L | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 24R | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 25 | 4 | | | 530 | 500 | 9 | 10 | 5 | | | | | | 530 | 500 | A 11 | 7A | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A 25A | 6 | | SHLD A25 | 25N | | | | | | | | | E5 | 25N | | | | | | | | |
| A 25W | | | P1-T | 19N | 23 | | | | | | | | P2-T | 19N | 22 | | | | | | | |
| A 26 | | | DELETED | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 26A | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 26L | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 26R | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 27 | | | DELETED | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 27A | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 27L | | | DELETED | | | | | | | | | | | | | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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CENTER
HOUSTON, TEXAS

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| GIC | CABLE W11 | B | 1900975 |
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| CONDUCTOR | | | FROM | | TO | |
|-------------------|----------|--|----------------------|-------------------|----------------------|-------------------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | TERMINATION SPEC. | STRIP WIRE OR JACKET | TERMINATION SPEC. |
| | | | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| A 27R | | | DELETED | | | |
| A 28 | | | DELETED | | | |
| | | | DELETED | | | |
| A 28A | | | DELETED | | | |
| A 28L | | | DELETED | | | |
| A 28R | | | DELETED | | | |
| A 29 | | | DELETED | | | |
| | | | DELETED | | | |
| A 29A | | | DELETED | | | |
| A 29L | | | DELETED | | | |
| A 29R | | | DELETED | | | |
| A 30 | | | DELETED | | | |
| | | | DELETED | | | |
| A 30A | | | DELETED | | | |
| A 30W | | | DELETED | | | |
| A 31 | | | DELETED | | | |
| | | | DELETED | | | |
| A 31A | | | DELETED | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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CENTER
HOUSTON, TEXAS

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| GIC | CABLE W11 | B | 1900975 |
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| CONDUCTOR | | | FROM | | | TO | | | | | | |
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| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | | | | | |
| ITEM NO. 3 | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | | | | |
| NUMBER | NO. | | CIRCUIT POINT | 2 | 1 | ITEM NO. | CIRCUIT POINT | 2 | 1 | ITEM NO. | 1 | 2 |
| A 31W | | | DELETED | | | | | | | | | |
| A 32 | 5 | | P1-GG | 19N | 23 | | P2-GG | 19N | 22 | | | |
| A 33 | 6 | | P1-B | 19N | 23 | | E1 | 25N | | | | |
| A 34 | 6 | | E1 | 25N | | | E2 | 25N | | | | |
| A 35 | 6 | | E2 | 25N | | | E3 | 25N | | | | |
| A 36 | 6 | | E3 | 25N | | | E4 | 25N | | | | |
| A 37 | 6 | | E4 | 25N | | | E5 | 25N | | | | |
| A 38 | 18 | | | 580 | 550 20 21 | 5 | | 580 | 550 20 21 | 5 | | |
| | | | | | A 19 | | | | A 19 | | | |
| A 38A | 6 | | SHLD A38 | 25N | | | P1-S | 19N | 23 | | | |
| A 38B | 6 | | P2-S | 19N | 23 | | SHLD A38 | 25N | | | | |
| A 38W | | | P1-R | 19N | 23 | | P2-R | 19N | 22 | | | |
| A 39 | 24 | | | 480 | 450 27 28 | 5 | | 480 | 450 A 30 | 7A | | |
| | | | | | A 29 | | | | | | | |
| A 39A | 6 | | SHLD A39 | 25N | | | E6 | 25N | | | | |
| A 39L | | | P3-Y | 19N | | | P2-H* | 19N | 22 | | | |
| A 39R | | | P3-W | 19N | | | P2-G* | 19N | 22 | | | |
| A 39Y | | | P3-Z | 19N | | | P2-F* | 19N | 22 | | | |

> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS

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| CONDUCTOR | | | | FROM | | | | TO | | | | | |
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| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | |
| ITEM NO. 2 | | STRIP WIRE OR JACKET | | CIRCUIT POINT 2 | | T 1 | | CUT WIRE OR SHIELD | | CIRCUIT POINT 2 | | T 1 | |
| NUMBER | ITEM NO. | | | ITEM NO. | | | | | ITEM NO. | | | | |
| A 40 | 24 | | | 480 | 450 | 7 | 8 | 5 | | | 480 | 450 | A 30 7A |
| | | | | | | A 29 | | | | | | | |
| A 40A | 6 | | SHLD A40 | 25N | | | | | E6 | | 25N | | |
| A 40L | | | P3-V | 19N | | | | | P2-P* | | 19N | | 22 |
| A 40R | | | P3-U | 19N | | | | | P2-Y* | | 19N | | 22 |
| A 40Y | | | P3-S | 19N | | | | | P2-Z* | | 19N | | 22 |
| A 41 | 3 | | | 480 | 450 | 7 | 8 | 5 | | | 480 | 450 | A 11 7A |
| | | | | | | A 11 | | | | | | | |
| A 41A | 6 | | SHLD A41 | 25N | | | | | E6 | | 25N | | |
| A 41L | | | P3-B* | 19N | | | | | P2-DD | | 19N | | 22 |
| A 41R | | | P3-C* | 19N | | | | | P2-CC | | 19N | | 22 |
| A 42 | 5 | | E6 | 25N | | | | | P2-N* | | 19N | | |
| A 43 | 5 | | P3-B | 19N | | | | | E6 | | 25N | | |
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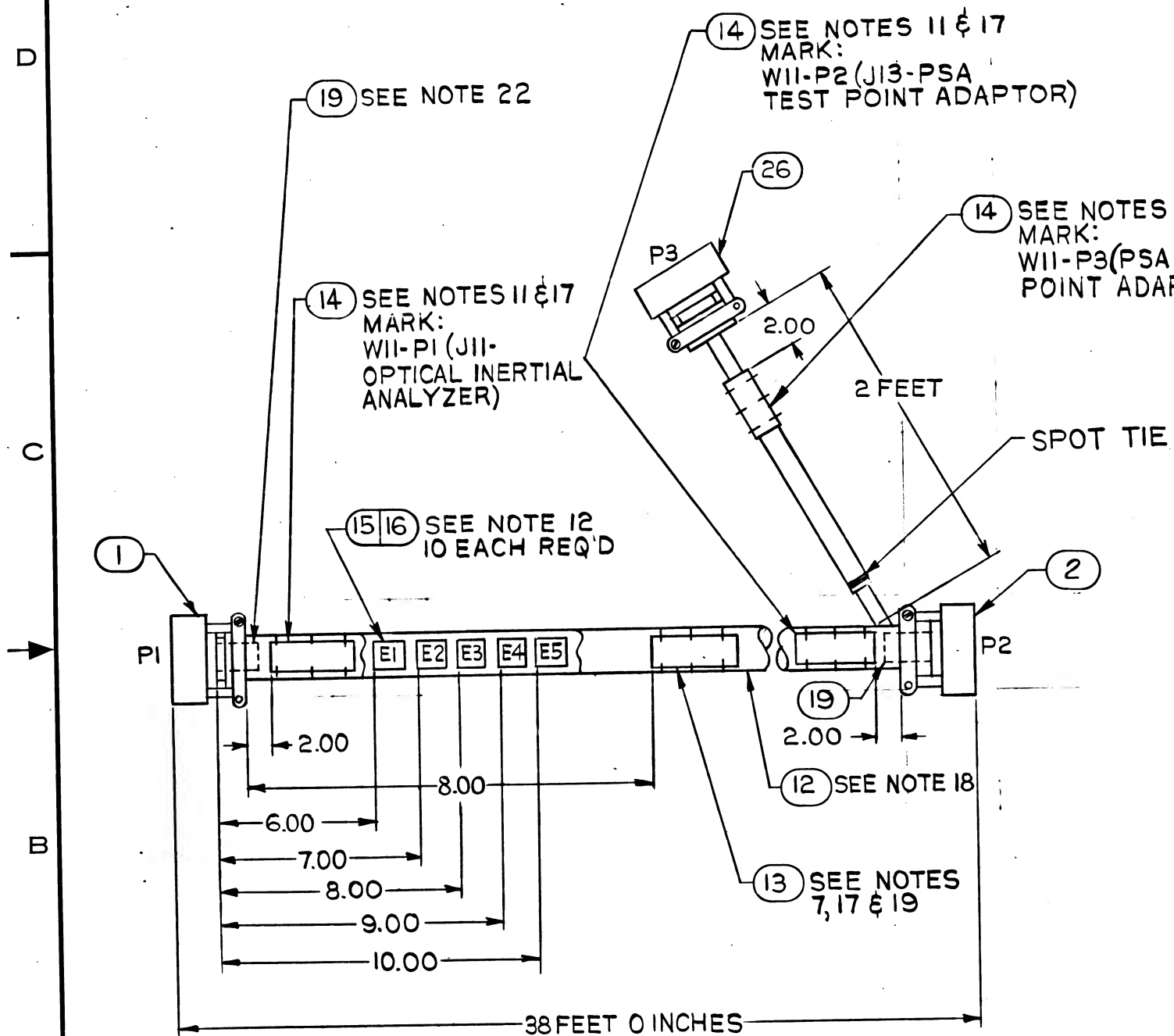
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REVISIONS

| SYM | ZONE | DESCRIPTION | CHG NO. | DATE | APPD. |
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| (M) | | SEE SHEET 1 FOR REVISION RECORD | | | |



LOCATION TOLERANCE
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| NEXT ASSY | USED ON | |
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AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN T.KOSMATKA 1 NOV 63

CHECKED E.L.HINTZ 12 NOV 63

APPROVAL R.B.LEGION 13 NOV 63

APPROVAL *Wheeler* 9/4/64NASA APPROVAL *C. C. M. 9/13/64*MIT APPROVAL *J. Hagel 9/13/64*MANNED
SPACECRAFT CENTER
HOUSTON, TEXASCABLE INTERCONNECT WII
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| APPLICATION | | REVISIONS | | |
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| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM-193190 | 19 FEB 64 |
| | | B | CHANGE IN ACCORDANCE WITH CM 197501 REVISED CUSTOMER DATA (V2-G4) | 27 MAY 64 |
| | | C | REVISD PER TDRR 116224 | 9 JUL 64 |
| | | D | CHANGE IN ACCORDANCE WITH CM 197756 REVISED PER TDRR 117177 | 9 JUL 64 |
| | | E | REVISED PER TDRR 123822 | 25 SEP 64 |
| | | | REVISED AND UPGRADED TO 24WAY CLASS 'A' PER TDRR 19086 | 24 MAY 65 |
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| SHEET | | | | |
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| | 765 | 766 | 767 | 768 |
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| | 989 | 990 | 991 | 992 |
| | 993 | 994 | 995 | 996 |
| | 997 | 998 | 999 | 1000 |
| | 1001 | 1002 | 1003 | 1004 |
| | 1005 | 1006 | 1007 | 1008 |
| | 1009 | 1010 | 1011 | 1012 |
| | 1013 | 1014 | 1015 | 1016 |
| | 1017 | 1018 | 1019 | 1020 |
| | 1021 | 1022 | 1023 | 1024 |
| | 1025 | 1026 | 1027 | 1028 |
| | 1029 | 1030 | 1031 | 1032 |
| | 1033 | 1034 | 1035 | 1036 |
| | 1037 | 1038 | 1039 | 1040 |
| | 1041 | 1042 | 1043 | 1044 |
| | 1045 | 1046 | 1047 | 1048 |
| | 1049 | 1050 | 1051 | 1052 |
| | 1053 | 1054 | 1055 | 1056 |
| | 1057 | 1058 | 1059 | 1060 |
| | 1061 | 1062 | 1063 | 1064 |
| | 1065 | 1066 | 1067 | 1068 |
| | 1069 | 1070 | 1071 | 1072 |
| | 1073 | 1074 | 1075 | 1076 |
| | 1077 | 1078 | 1079 | 1080 |
| | 1081 | 1082 | 1083 | 1084 |
| | 1085 | 1086 | 1087 | 1088 |
| | 1089 | 1090 | 1091 | 1092 |
| | 1093 | 1094 | 1095 | 1096 |
| | 1097 | 1098 | 1099 | 1100 |
| | 1101 | 1102 | 1103 | 1104 |
| | 1105 | 1106 | 1107 | 1108 |
| | 1109 | 1110 | 1111 | 1112 |
| | 1113 | 1114 | 1115 | 1116 |
| | 1117 | 1118 | 1119 | 1120 |
| | 1121 | 1122 | 1123 | 1124 |
| | 1125 | 1126 | 1127 | 1128 |
| | 1129 | 1130 | 1131 | 1132 |
| | 1133 | 1134 | 1135 | 1136 |
| | 1137 | 1138 | 1139 | 1140 |
| | 1141 | 1142 | 1143 | 1144 |
| | 1145 | 1146 | 1147 | 1148 |
| | 1149 | 1150 | 1151 | 1152 |
| | 1153 | 1154 | 1155 | 1156 |
| | 1157 | 1158 | 1159 | 1160 |
| | 1161 | 1162 | 1163 | 1164 |
| | 1165 | 1166 | 1167 | 1168 |
| | 1169 | 1170 | 1171 | 1172 |
| | 1173 | 1174 | 1175 | 1176 |
| | 1177 | 1178 | 1179 | 1180 |

| | | | |
|---|---|-----------|---------------|
| GIC | CABLE W11 | C | 1900975 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR C | SHEET 2 OF 17 |

| | | | |
|---|---|-----------|---------------|
| GIC | CABLE W11 | B | 1900975 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | ITEM 22 FURNISHED WITH ITEM 2 | | |
| 21 | ITEM 23 FURNISHED WITH ITEM 1 | | |
| 22 | ITEM 19 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 19 AS REQUIRED TO FIT. | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR B | SHEET 3 OF 17 |

| | | | |
|--|---------------|-----------|---------------|
| GIC | CABLE W11 | B | 1900975 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET |
| | WIRE | WIRE | CUT SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR B | SHEET 4 OF 17 |

| | | | |
|---|-------------------|------------------------------|---|
| GIC | CABLE W11 | E | 1900975 |
| PENNANT | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 16 | 1 | MS3126F22-55SW (1897046-551) | CONNECTOR PLUG |
| 16 | 2 | MS3126F22-55PW (1897045-551) | CONNECTOR PLUG |
| 3 | 1 | 1900975-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 20AWG, WHT/BLU, WHT/RED 646 FT TOTAL LENGTH |
| 4 | 1 | 1900975-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JAKT, 20AWG, 380 FT TOTAL LENGTH |
| 5 | 1 | 1900975-003 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG, 38 FT TOTAL LENGTH |
| 6 | 1 | 1900975-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, 32 FT TOTAL LENGTH |
| 10 | 7 | 1000243-011 | FERRULE, ELEC COND |
| 10 | 8 | 1000242-009 | FERRULE, ELEC COND |
| 10 | 9 | 1000243-005 | FERRULE, ELEC COND |
| 10 | 10 | 1000242-004 | FERRULE, ELEC COND |
| 10 | 11 | 1010490-198 | INSULATION, SLEEVING ELEC |
| 12 | 1 | 1900975-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1.25 IN. DIA, 42 FT TOTAL LENGTH |
| 10 | 13 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 14 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 15 | 1016006-002 | SPLICE REDUCER |
| 10 | 16 | 1010490-258 | INSULATION-SLEEVING ELEC |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900975 |
| SCALE-NONE | | REV LTR E | SHEET 5 OF 17 |

GIC CABLE W11 # E 1900975

| LIST OF MATERIALS | | | | |
|---|------|-----|-----------------------------|---|
| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
| | 17 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732 NO. 18) |
| | 18 | | 1900975-006 | WIRE COAXIAL MIL-C-17/69A RG 188 A/U 38 FT TOTAL LENGTH |
| 22 | 19 | 2 | 1897147-108 | -112 CABLE CLAMP SLEEVE |
| | 20 | 2 | 1000243-006 | FERRULE ELECT. COND |
| | 21 | 2 | 1000242-005 | FERRULE ELECT. COND |
| 20 | 22 | | | CONTACT PINS |
| 21 | 23 | | | CONTACT SOCKETS |
| | 24 | 1 | 1900975-007 | WIRE ND1002181, TYPE 3, CLASS 4, WHITE JACKET 20AWG, WHT-BLU, WHT-RED, WHT-YEL, 76 FT TOT. LG |
| | 25 | 1 | 1900975-008 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE .50 DIA 2 FT TOTAL LENGTH |
| | 26 | 1 | MS3127E24-61P (1897055-610) | CONNECTOR |
| 10 | 27 | 2 | 100C243-015 | FERRULE ELECT. COND |
| 10 | 28 | 2 | 1000243-016 | FERRULE ELECT. COND |
| 10 | 29 | 2 | 1010490-194 | INSULATION SLEEVING ELECT. |
| 10 | 30 | 2 | 1010490-196 | INSULATION SLEEVING ELECT. |
| | 31 | 1 | 1010490-194 | RUBBER GROMMET DELETED |
| | 32 | | 1016006-001 | SPLICE REDUCER, |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| SCALE - NONE REV LTR # E SHEET 6 OF 17 | | | | |

GIC CABLE W11 B 1900975

| CONDUCTOR INDIVIDUAL LENGTH | | | FROM | | | TO | | | | | | | |
|---|----------|---|----------------------|---|-----|---------------------|-------|-----|----------|-----|------|------|----|
| NUMBER | ITEM NO. | 3 | CUT WIRE OR SHIELD | | N | TERMINATION SPEC. 1 | | NO. | | | | | |
| | | | STRIP WIRE OR JACKET | 2 | | ITEM NO. | 2 | | ITEM NO. | | | | |
| A | 1 | 3 | | | 250 | 200 | 7 8 5 | | 250 | 200 | A 11 | 7A | |
| | | | | | | | A 11 | | | | | | |
| A | 1A | 6 | SHLD A1 | | 25N | | | | E1 | | 25N | | |
| A | 1L | | P1-D | | 19N | | 23 | | P2-D | | 19N | | 22 |
| A | 1R | | P1-C | | 19N | | 23 | | P2-C | | 19N | | 22 |
| A | 2 | 3 | | | 250 | 200 | 7 8 5 | | | 250 | 200 | A 11 | 7A |
| | | | | | | | A 11 | | | | | | |
| A | 2A | 6 | SHLD A2 | | 25N | | | | E1 | | 25N | | |
| A | 2L | | P1-F | | 19N | | 23 | | P2-F | | 19N | | 22 |
| A | 2R | | P1-E | | 19N | | 23 | | P2-E | | 19N | | 22 |
| A | 3 | 3 | | | 250 | 200 | 7 8 5 | | | 250 | 200 | A 11 | 7A |
| | | | | | | | A 11 | | | | | | |
| A | 3A | 6 | SHLD A3 | | 25N | | | | E1 | | 25N | | |
| A | 3L | | P1-H | | 19N | | 23 | | P2-H | | 19N | | 22 |
| A | 3R | | P1-G | | 19N | | 23 | | P2-G | | 19N | | 22 |
| A | 4 | 3 | | | 250 | 200 | 7 8 5 | | | 250 | 200 | A 11 | 7A |
| | | | | | | | A 11 | | | | | | |
| A | 4A | 6 | SHLD A4 | | 25N | | | | E1 | | 25 | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | | | | |
| 1900975 | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | | |
| REV LTR B | | | | | | | | | | | | | |
| SHEET 7 OF 17 | | | | | | | | | | | | | |

GIC CABLE W11 B 1900975

| CONDUCTOR | | | | FROM | | | | TO | | | | | | | |
|---|----------|---|--|--------------------|-----|------|-----|--|-----|-----------|------|---------|--|---------------|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | | | |
| STEP WIRE OR JACKET | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | | | | | |
| NUMBER | ITEM NO. | 3 | | CIRCUIT POINT | 2 | 1 | NO. | CIRCUIT POINT | 2 | 1 | NO. | | | | |
| A 4L | | | | P1-K | 19N | 23 | | P2-K | 19 | 22 | | | | | |
| A 4R | | | | P1-J | 19N | 23 | | P2-J | 19 | 22 | | | | | |
| A 5 | 3 | | | 280 | 250 | 7 | 8 | 5 | 280 | 250 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | |
| A 5A | 6 | | | SHLD A5 | 25N | | | E1 | 25N | | | | | | |
| A 5L | | | | P1-M | 19N | 23 | | P2-M | 19N | 22 | | | | | |
| A 5R | | | | P1-L | 19N | 23 | | P2-L | 19N | 22 | | | | | |
| A 6 | 3 | | | 280 | 250 | 7 | 8 | 5 | 280 | 250 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | |
| A 6A | 6 | | | SHLD A6 | 25N | | | E1 | 25N | | | | | | |
| A 6L | | | | P1-V | 19N | 23 | | P2-V | 19N | 22 | | | | | |
| A 6R | | | | P1-U | 19N | 23 | | P2-U | 19N | 22 | | | | | |
| A 7 | 3 | | | 280 | 250 | 7 | 8 | 5 | 280 | 250 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | |
| A 7A | 6 | | | SHLD A7 | 25N | | | E2 | 25N | | | | | | |
| A 7L | | | | P1-FF | 19N | 23 | | P2-FF | 19N | 22 | | | | | |
| A 7R | | | | P1-EE | 19N | 23 | | P2-EE | 19N | 22 | | | | | |
| A 8 | 4 | | | 280 | 250 | 10 | 9 | 5 | 280 | 250 | A 11 | 7A | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900975 | | | |
| | | | | | | | | SCALE - NONE | | REV LTR | | B | | SHEET 8 OF 17 | |

GIC CABLE W11 B 1900975

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|----------------------|-----|-------------------|--------|----------|---|--------------------|---|-------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | 1 | 2 | 3 | ITEM NO. | 1 | 2 | 3 | ITEM NO. | 1 | 2 | 3 |
| A 8A | 6 | SHLD A8 | 25N | | | A 11 | | | | E2 | 25N | | |
| A 8W | | P1-I* | 19N | 23 | | | | | | P2-I* | 19N | 22 | |
| A 9 | 4 | | 330 | 300 | 10 9 5 | | | | | | 330 | 300 | A 11 7A |
| | | | | | | A 11 | | | | | | | |
| A 9A | 6 | SHLD A9 | 25N | | | | | | | E2 | 25N | | |
| A 9W | | P1-J* | 19N | 23 | | | | | | P2-J* | 19N | 22 | |
| A 10 | 4 | | 330 | 300 | 10 9 5 | | | | | | 330 | 300 | A 11 7A |
| | | | | | | A 11 | | | | | | | |
| A 10A | 6 | SHLD A10 | 25N | | | | | | | E2 | 25N | | |
| A 10W | | P1-K* | 19N | 23 | | | | | | P2-K* | 19N | 22 | |
| A 11 | 4 | | 330 | 300 | 10 9 5 | | | | | | 330 | 300 | A 11 7A |
| | | | | | | A 11 | | | | | | | |
| A 11A | 6 | SHLD A11 | 25N | | | | | | | E2 | 25N | | |
| A 11W | | P1-M* | 19N | 23 | | | | | | P2-M* | 19N | 22 | |
| A 12 | 4 | | 330 | 300 | 10 9 5 | | | | | | 330 | 300 | A 11 7A |
| | | | | | | A 11 | | | | | | | |
| A 12A | 6 | SHLD A12 | 25N | | | | | | | E2 | 25N | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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HOUSTON, TEXAS

A

SCALE - NONE

REV LTR

B

1900975

SHEET

9 OF 17

| CONDUCTOR | | | FROM | | | | TO | | | |
|-------------------|----------|---|----------------------|-----|------------------|--------|----------------------|-----|------------------|---------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC | | CUT WIRE OR SHIELD | | TERMINATION SPEC | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | 2 | ITEM NO. | 1 | STRIP WIRE OR JACKET | 2 | ITEM NO. | 1 |
| | | | CIRCUIT POINT | 2 | | | CIRCUIT POINT | 2 | | |
| A 12W | | | P1-P | 19N | 23 | | P2-P | 19N | 22 | |
| A 13 | 4 | | | 380 | 350 | 10 9 5 | | 380 | 350 | A 11 7A |
| | | | | | A 11 | | | | | |
| A 13A | 6 | | SHLD A13 | 25N | | | E3 | 25N | | |
| A 13W | | | P1-N | 19N | 23 | | P2-N | 19N | 22 | |
| A 14 | 3 | | | 380 | 350 | 8 9 5 | | 380 | 350 | A 11 7A |
| | | | | | A 11 | | | | | |
| A 14A | 6 | | SHLD A14 | 25N | | | E3 | 25N | | |
| A 14L | | | P1-X | 19N | 23 | | P2-X | 19N | 22 | |
| A 14R | | | P1-W | 19N | 23 | | P2-W | 19N | 22 | |
| A 15 | 3 | | | 380 | 350 | 8 9 5 | | 380 | 350 | A 11 7A |
| | | | | | A 11 | | | | | |
| A 15A | 6 | | SHLD A15 | 25N | | | E3 | 25N | | |
| A 15L | | | P1-Z | 19N | 23 | | P2-Z | 19N | 22 | |
| A 15R | | | P1-Y | 19N | 23 | | P2-Y | 19N | 22 | |
| A 16 | 3 | | | 380 | 350 | 7 8 5 | | 380 | 350 | A 11 7A |
| | | | | | A 11 | | | | | |
| A 16A | 6 | | SHLD A16 | 25N | | | E3 | 25N | | |

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS

SIZE
A

1900975

SCALE - NONE

REV LTR B

SHEET 10 OF 17

1900975

| CONDUCTOR | | | | | | FROM | | | | | | TO | | | | | |
|-------------------|----------|---|----------------------|---------------|------|------------------|----------|---|--------------------|----------------------|---------------|------------------|------|----------|---|-----|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC | | | | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | 3 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 2 | 3 | ITEM NO. | 1 | NO. | |
| A 16L | | | P1-B* | 19N | 23 | | | | | P2-B* | 19N | 22 | | | | | |
| A 16R | | | P1-A* | 19N | 23 | | | | | P2-A* | 19N | 22 | | | | | |
| A 17 | 3 | | | 430 | 400 | 7 8 5 | | | | | 430 | 400 | A 11 | 7A | | | |
| | | | | | A 11 | | | | | | | | | | | | |
| A 17A | 6 | | SHLD A17 | 25N | | | | | | E3 | 25N | | | | | | |
| A 17L | | | P1-D* | 19N | 23 | | | | | P2-D* | 19N | 22 | | | | | |
| A 17R | | | P1-C* | 19N | 23 | | | | | P2-C* | 19N | 22 | | | | | |
| A 18 | 3 | | | 430 | 400 | 7 8 5 | | | | | 430 | 400 | A 11 | 7A | | | |
| | | | | | A 11 | | | | | | | | | | | | |
| A 18A | 6 | | SHLD A18 | 25N | | | | | | E3 | 25N | | | | | | |
| A 18L | | | P1-R* | 19N | 23 | | | | | P2-R* | 19N | 22 | | | | | |
| A 18R | | | P1-Q* | 19N | 23 | | | | | P2-Q* | 19N | 22 | | | | | |
| A 19 | 3 | | | 430 | 400 | 7 8 5 | | | | | 430 | 400 | A 11 | 7A | | | |
| | | | | | A 11 | | | | | | | | | | | | |
| A 19A | 6 | | SHLD A19 | 25N | | | | | | E4 | 25N | | | | | | |
| A 19L | | | P1-T* | 19N | 23 | | | | | P2-T* | 19N | 22 | | | | | |
| A 19R | | | P1-S* | 19N | 23 | | | | | P2-S* | 19N | 22 | | | | | |
| A 20 | 3 | | | 430 | 400 | 7 8 5 | | | | | 430 | 400 | A 11 | 7A | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS

SIZE
A

1900975

SCALE - NONE REV LTR R SHEET 11 OF 11

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|---|----------------------|---------------|------------------|---|--------------------|-------|-----|------------------|---------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC | | CUT WIRE OR SHIELD | | | TERMINATION SPEC | |
| NUMBER | ITEM NO. | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | A 11 | | | | | | |
| A 20A | 6 | | SHLD A20 | 25N | | | | E4 | 25N | | |
| A 20L | | | P1-V* | 19N | 23 | | | P2-V* | 19N | 22 | |
| A 20R | | | P1-U* | 19N | 23 | | | P2-U* | 19N | 22 | |
| A 21 | 3 | | | 480 | 450 | 7 | 8 | | 480 | 450 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 21A | 6 | | SHLD A21 | 25N | | | | E4 | 25N | | |
| A 21L | | | P1-X* | 19N | 23 | | | P2-X* | 19N | 22 | |
| A 21R | | | P1-W* | 19N | 23 | | | P2-W* | 19N | 22 | |
| A 22 | 3 | | | 480 | 450 | 7 | 8 | | 480 | 450 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 22A | 6 | | SHLD A22 | 25N | | | | E4 | 25N | | |
| A 22L | | | P1-BB | 19N | 23 | | | P2-BB | 19N | 22 | |
| A 22R | | | P1-AA | 19N | 23 | | | P2-AA | 19N | 22 | |
| A 23 | 4 | | | 480 | 450 | 9 | 10 | | 480 | 450 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 23A | 6 | | SHLD A23 | 25N | | | | E4 | 25N | | |
| A 23M | | | P1-A | 19N | 23 | | | P2-A | 19N | 22 | |

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SIZE
A

1900975

SCALE - NONE

REV LTR **D**

SHEET 12 OF 17

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|--------------------|----------|----------------------|----------|-------------------|----------|--------------------|----------|----------------------|----------|-------------------|----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. |
| A 24 | | DELETED | | | | | | | | | | | |
| A 24A | | DELETED | | | | | | | | | | | |
| A 24L | | DELETED | | | | | | | | | | | |
| A 24R | | DELETED | | | | | | | | | | | |
| A 25 | 4 | | 530 | 500 | 9 10 | 5 | | | 530 | 500 | A 11 | 7A | |
| | | | | | A 11 | | | | | | | | |
| A 25A | 6 | SHLD A25 | 25N | | | E5 | 25N | | | | | | |
| A 25W | | P1-T | 19N | 23 | | P2-T | 19N | 22 | | | | | |
| A 26 | | DELETED | | | | | | | | | | | |
| | | DELETED | | | | | | | | | | | |
| A 26A | | DELETED | | | | | | | | | | | |
| A 26L | | DELETED | | | | | | | | | | | |
| A 26R | | DELETED | | | | | | | | | | | |
| A 27 | | DELETED | | | | | | | | | | | |
| | | DELETED | | | | | | | | | | | |
| A 27A | | DELETED | | | | | | | | | | | |
| A 27L | | DELETED | | | | | | | | | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
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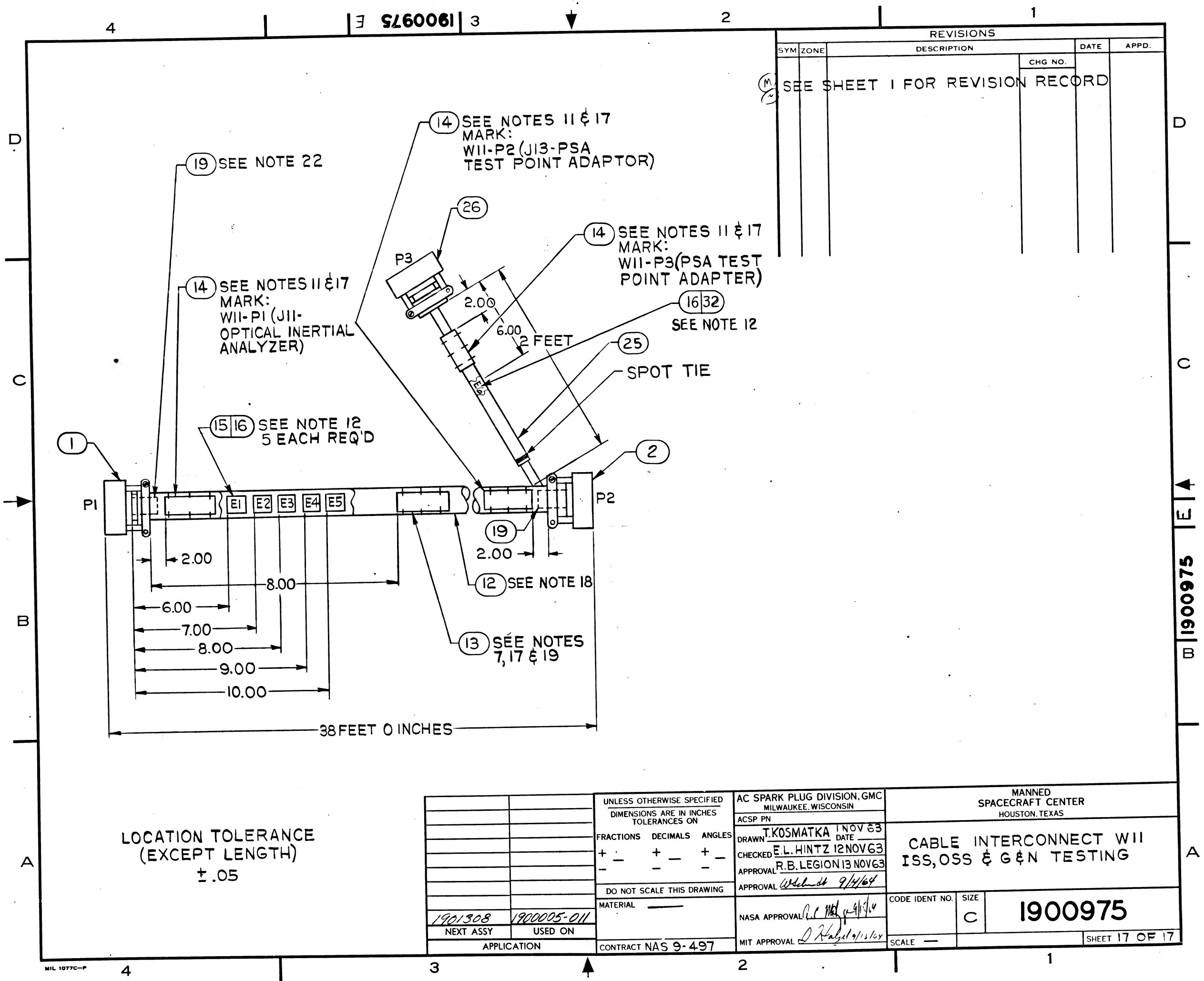
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SHEET 13 OF 17

| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | | | |
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| CONDUCTOR INDIVIDUAL LENGTH | | | FROM | | | | | TO | | | | | | | | | | | |
| NUMBER | ITEM NO. | 2 | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | | | | | | |
| | | | STRIP WIRE OR JACKET | CIRCUIT POINT | 1 | 2 | | 1 | 2 | 1 | 2 | | ITEM NO. | | | | | | |
| A 27R | | | DELETED | | | | | | | | | | | | | | | | |
| A 28 | | | DELETED | | | | | | | | | | | | | | | | |
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| A 29 | | | DELETED | | | | | | | | | | | | | | | | |
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| A 30 | | | DELETED | | | | | | | | | | | | | | | | |
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| A 30A | | | DELETED | | | | | | | | | | | | | | | | |
| A 30W | | | DELETED | | | | | | | | | | | | | | | | |
| A 31 | | | DELETED | | | | | | | | | | | | | | | | |
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| A 31A | | | DELETED | | | | | | | | | | | | | | | | |
| <div>▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| | | | | | | | | | | | | | | | SIZE A | 1900975 | | | |
| SCALE - NONE | | | | | | | | | | | | | | | REV LTR | B | SHEET | 14 OF | 17 |

| GIC | | CABLE W11 | | | | | | | | | | B | | 1900975 | | | |
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| CONDUCTOR | | | FROM | | | | | TO | | | | | | | | | |
| INDIVIDUAL LENGTH | | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | | | | |
| NUMBER | 1 | | STRIP WIRE OR JACKET | CIRCUIT POINT | 1 | 2 | | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | 1 | | 2 | ITEM NO. | | | |
| A 31W | | | DELETED | | | | | | | | | | | | | | |
| A 32 | 5 | | P1-GG | 19N | 23 | | | P2-GG | 19N | 22 | | | | | | | |
| A 33 | 6 | | P1-B | 19N | 23 | | | E1 | 25N | | | | | | | | |
| A 34 | 6 | | E1 | 25N | | | | E2 | 25N | | | | | | | | |
| A 35 | 6 | | E2 | 25N | | | | E3 | 25N | | | | | | | | |
| A 36 | 6 | | E3 | 25N | | | | E4 | 25N | | | | | | | | |
| A 37 | 6 | | E4 | 25N | | | | E5 | 25N | | | | | | | | |
| A 38 | 18 | | | 580 | 550 | 20 | 21 | 5 | | 580 | 550 | 20 | 21 | 5 | | | |
| | | | | | | A 19 | | | | | | A 19 | | | | | |
| A 38A | 6 | | SHLD A38 | 25N | | | | P1-S | 19N | 23 | | | | | | | |
| A 38B | 6 | | P2-S | 19N | 22 | | | SHLD A38 | 25N | | | | | | | | |
| A 38W | | | P1-R | 19N | 23 | | | P2-R | 19N | 22 | | | | | | | |
| A 39 | 24 | | | 480 | 450 | 27 | 28 | 5 | | 480 | 450 | A 30 | 7A | | | | |
| | | | | | | A 29 | | | | | | | | | | | |
| A 39A | 6 | | SHLD A39 | 25N | | | | E6 | 25N | | | | | | | | |
| A 39L | | | P3-Y | 19N | | | | P2-H* | 19N | 22 | | | | | | | |
| A 39R | | | P3-W | 19N | | | | P2-G* | 19N | 22 | | | | | | | |
| A 39Y | | | P3-Z | 19N | | | | P2-F* | 19N | 22 | | | | | | | |
| ▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | |
| ▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SIZE A | | | 1900975 | | |
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| CONDUCTOR | | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION | | NO. | CUT WIRE OR SHIELD | | TERMINATION | | NO. | | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | 1 | 2 | SPEC | | 1 | 2 | SPEC | 1 | | 2 | | |
| | | | CIRCUIT POINT | 3 | 4 | ITEM NO. | | | | | ITEM NO. | | | | |
| A 40 | 24 | | | 480 | 450 | 27 28 | 5 | | 480 | 450 | A 30 | 7A | | | |
| | | | | | | A 29 | | | | | | | | | |
| A 40A | 6 | | SHLD A40 | 25N | | | | E6 | 25N | | | | | | |
| A 40L | | | P3-V | 19N | | | | P2-P* | 19N | 22 | | | | | |
| A 40R | | | P3-U | 19N | | | | P2-Y* | 19N | 22 | | | | | |
| A 40Y | | | P3-S | 19N | | | | P2-Z* | 19N | 22 | | | | | |
| A 41 | 3 | | | 480 | 450 | 7 8 | 5 | | 480 | 450 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | |
| A 41A | 6 | | SHLD A41 | 25N | | | | E6 | 25N | | | | | | |
| A 41L | | | P3-B* | 19N | | | | P2-DD | 19N | 22 | | | | | |
| A 41R | | | P3-C* | 19N | | | | P2-CC | 19N | 22 | | | | | |
| A 42 | 5 | | E6 | 25N | | | | P2-N* | 19N | | | | | | |
| A 43 | 5 | | P3-B | 19N | | | | E6 | 25N | | | | | | |
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| REVISIONS | | | | |
|---------------------------------|------|-------------|------|-------|
| SYM | ZONE | DESCRIPTION | DATE | APPD. |
| SEE SHEET 1 FOR REVISION RECORD | | | | |

LOCATION TOLERANCE
(EXCEPT LENGTH)
± .05

| | | | | | |
|---|-------------|---|----------------|---|-----------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | ACSP PN | DRAWN | DATE |
| + | + | + | T.KOSMATKA | 1 NOV 63 | |
| - | - | - | CHECKED | E.L.HINTZ | 12 NOV 63 |
| DO NOT SCALE THIS DRAWING | | | APPROVAL | R.B.LEGION | 13 NOV 63 |
| MATERIAL | | | APPROVAL | 9/14/64 | |
| 1901308 | 1900005-011 | | NASA APPROVAL | 9/11/64 | |
| NEXT ASSY | USED ON | | MIT APPROVAL | 9/15/64 | |
| APPLICATION | | CONTRACT NAS 9-497 | CODE IDENT NO. | SIZE | |
| | | | | C | |
| | | | SCALE | | |

1900975

SHEET 17 OF 17

GENERAL NOTES

NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE - NONE | REV LTR | + |
| SHEET 2 OF 15 | | |

MIL 2084 4-63

GENERAL NOTES

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES
- 17 SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153
- 19 SERIALIZE PER ND 1002023

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE - NONE | REV LTR | + |
| SHEET 3 OF 15 | | |

MIL 2084 4-63

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|-------------|-------------|-----------|-------------|------|--|----------|--|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | | | | |
| 1900005-011 | 1900005-011 | | | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 036613 DATE 11/7/64

| | | | | | | | | | |
|-----|-------|-----|--------|-----|------|-----|--------|-----|------|
| REV | SHEET | REV | STATUS | REV | DATE | REV | STATUS | REV | DATE |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |

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|--|--|
| AC SPARK PLUG DIVISION, GMC | MANNED SPACECRAFT CENTER HOUSTON, TEXAS |
| MILWAUKEE, WISCONSIN | |
| ACSP PN | |
| DRAWN BY <i>[Signature]</i> DATE <i>11/7/64</i> | |
| CHECKED BY <i>[Signature]</i> DATE <i>12/11/63</i> | |
| APPROVAL BY <i>[Signature]</i> DATE <i>12/11/63</i> | |
| APPROVAL BY <i>[Signature]</i> DATE <i>12/11/63</i> | |
| NASA APPROVAL BY <i>[Signature]</i> DATE <i>12/11/63</i> | |
| MIT APPROVAL BY <i>[Signature]</i> DATE <i>12/11/63</i> | |
| CONTRACT NAS 9-497 | |

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|----------------|------|---------|
| CODE IDENT NO. | SIZE | REV |
| | A | 1900975 |
| SCALE NONE | | |
| SHEET 1 OF 15 | | |

MIL 2084 4-63

GENERAL NOTES

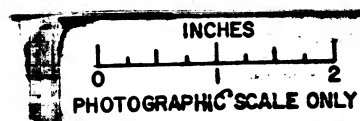
TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR
WIRE OR CABLE, STRIP
WIRE, STRIP JACKET, CUT
WIRE OR CUT SHIELD
UNDER 1 INCH
1 INCH TO 6 INCHES
6 INCHES TO 6 FEET
OVER 6 FEET

| | TOLERANCE | | | | |
|--------------------|------------------|-------------------------|-----------------------|-----------|-----------|
| | WIRE OR CABLE | STRIP WIRE JACKET | CUT WIRE SHIELD | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

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|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900975 |
| SCALE - NONE | REV LTR | + |
| SHEET 4 OF 15 | | |

MIL 2084 4-63



G1C

CABLE W11

1900975

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 1A | 6 | SHLD A1 | 22N | | | E1 | 37N | | |
| A 1L | | P1-D | 22N | | | P2-D | 22N | | |
| A 1R | | P1-C | 22N | | | P2-C | 22N | | |
| A 2 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 2A | 6 | SHLD A2 | 22N | | | E1 | 37N | | |
| A 2L | | P1-F | 22N | | | P2-F | 22N | | |
| A 2R | | P1-E | 22N | | | P2-E | 22N | | |
| A 3 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 3A | 6 | SHLD A3 | 22N | | | E1 | 37N | | |
| A 3L | | P1-H | 22N | | | P2-H | 22N | | |
| A 3R | | P1-G | 22N | | | P2-G | 22N | | |
| A 4 | 3 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 4A | 6 | SHLD A4 | 22N | | | E1 | 37 | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900975 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 6 OF 15 | |

MIL 2085 - 4-63 WIR

G1C

CABLE W11

1900975

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|--------|---|---------------|-------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 4L | | P1-K | 22N | | | P2-K | 22 | | |
| A 4R | | P1-J | 22N | | | P2-J | 22 | | |
| A 5 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 5A | 6 | SHLD A5 | 22N | | | E1 | 37N | | |
| A 5L | | P1-M | 22N | | | P2-M | 22N | | |
| A 5R | | P1-L | 22N | | | P2-L | 22N | | |
| A 6 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 6A | 6 | SHLD A6 | 22N | | | E1 | 37N | | |
| A 6L | | P1-V | 22N | | | P2-V | 22N | | |
| A 6R | | P1-U | 22N | | | P2-U | 22N | | |
| A 7 | 3 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 7A | 6 | SHLD A7 | 22N | | | E2 | 37N | | |
| A 7L | | P1-FF | 22N | | | P2-FF | 22N | | |
| A 7R | | P1-EE | 22N | | | P2-EE | 22N | | |
| A 8 | 4 | | 280 | 250 | 10 9 5 | | 280 | 250 | A 11 7A |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900975 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 7 OF 15 | |

MIL 2085 - 4-63 WIR

LIST OF MATERIAL

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|----------------|---|
| 16 | 1 | 1 | MS3126F22-55SW | (1897046-551) CONNECTOR PLUG |
| 16 | 2 | 1 | MS3126F22-55PW | (1897045-551) CONNECTOR PLUG |
| | 3 | 1 | 1900975-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JAKT, 20 AWG, WHT/BLU, WHT/RED 800 FT. TOTAL LENGTH. |
| | 4 | 1 | 1900975-002 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JAKT, 20 AWG, 480 FT. TOTAL LENGTH. |
| | 5 | 1 | 1900975-003 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG, 38 FT. TOTAL LENGTH. |
| | 6 | 1 | 1900975-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG, 32 FT. TOTAL LENGTH. |
| 10 | 7 | 21 | 1000243-011 | FERRULE, ELEC COND |
| 10 | 8 | 21 | 1000242-009 | FERRULE, ELEC COND |
| 10 | 9 | 10 | 1000243-005 | FERRULE, ELEC COND |
| 10 | 10 | 10 | 1000242-004 | FERRULE, ELEC COND |
| 10 | 11 | 62 | 1010490-198 | INSULATION, SLEEVEING ELEC |
| | 12 | 1 | 1900975-005 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 1 IN. DIA., 42 FT. TOTAL LENGTH. |
| 10 | 13 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 14 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 15 | 5 | 1016006-002 | SPLICE REDUCER |
| 10 | 16 | 5 | 1010490-258 | INSULATION-SLEEVEING ELEC |
| | 17 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES 2732 NO.18) |

| | | | | |
|---|--|---------|-----------------|--|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | 1900975 | |
| SCALE - NONE | | REV LTR | + SHEET 5 OF 15 | |

MIL 2084 - 4-63

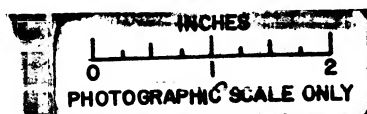
G1C

CABLE W11

1900975

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|--------|---|---------------|-------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| | | | | | A 11 | | | | |
| A 8A | 6 | SHLD A8 | 22N | | | E2 | 37N | | |
| A 8W | | P1-I* | 22N | | | P2-I* | 22N | | |
| A 9 | 4 | | 330 | 300 | 10 9 5 | | 330 | 300 | A 11 7A |
| | | | | | A 11 | | | | |
| A 9A | 6 | SHLD A9 | 22N | | | E2 | 37N | | |
| A 9W | | P1-J* | 22N | | | P2-J* | 22N | | |
| A 10 | 4 | | 330 | 300 | 10 9 5 | | 330 | 300 | A 11 7A |
| | | | | | A 11 | | | | |
| A 10A | 6 | SHLD A10 | 22N | | | E2 | 37N | | |
| A 10W | | P1-K* | 22N | | | P2-K* | 22N | | |
| A 11 | 4 | | 330 | 300 | 10 9 5 | | 330 | 300 | A 11 7A |
| | | | | | A 11 | | | | |
| A 11A | 6 | SHLD A11 | 22N | | | E2 | 37N | | |
| A 11W | | P1-M* | 22N | | | P2-M* | 22N | | |
| A 12 | 4 | | 330 | 300 | 10 9 5 | | 330 | 300 | A 11 7A |
| | | | | | A 11 | | | | |
| A 12A | 6 | SHLD A12 | 22N | | | E2 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900975 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 8 OF 15 | |

MIL 2085 - 4-63 WIR



| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|-----|---|----------------------|------|-----|-------------|------|--------------------|----------------------|-----|-------------|------|----|----------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | CUT WIRE OR SHIELD | | | TERMINATION | | | |
| ITEM | NO. | 2 | STRIP WIRE OR JACKET | 1 | 2 | SPEC | 1 | NO. | STRIP WIRE OR JACKET | 1 | 2 | SPEC | 1 | NO. |
| NUMBER | | | CIRCUIT POINT | 2 | 1 | | | ITEM NO. | CIRCUIT POINT | 2 | 1 | | | ITEM NO. |
| A 16L | | | P1-B* | 22N | | | | | P2-B* | 22N | | | | |
| A 16R | | | P1-A* | 22N | | | | | P2-A* | 22N | | | | |
| A 17 | 3 | | | 430 | 400 | 7 | 8 | 5 | | 430 | 400 | A 11 | 7A | |
| | | | | | | | A 11 | | | | | | | |
| A 17A | 6 | | SHLD A17 | 22N | | | | | E3 | 37N | | | | |
| A 17L | | | P1-D* | 22N | | | | | P2-D* | 22N | | | | |
| A 17R | | | P1-C* | 22N | | | | | P2-C* | 22N | | | | |
| A 18 | 3 | | | 430 | 400 | 7 | 8 | 5 | | 430 | 400 | A 11 | 7A | |
| | | | | | | | A 11 | | | | | | | |
| A 18A | 6 | | SHLD A18 | 22N | | | | | E3 | 37N | | | | |
| A 18L | | | P1-R* | 22N | | | | | P2-R* | 22N | | | | |
| A 18R | | | P1-Q* | 22N | | | | | P2-Q* | 22N | | | | |
| A 19 | 3 | | | 430 | 400 | 7 | 8 | 5 | | 430 | 400 | A 11 | 7A | |
| | | | | | | | A 11 | | | | | | | |
| A 19A | 6 | | SHLD A19 | 22N | | | | | E4 | 37N | | | | |
| A 19L | | | P1-T* | 22N | | | | | P2-T* | 22N | | | | |
| A 19R | | | P1-S* | 22N | | | | | P2-S* | 22N | | | | |
| A 20 | 3 | | | 430 | 400 | 7 | 8 | 5 | | 430 | 400 | A 11 | 7A | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900975

SCALE - NONE

REV LTR +

SHEET 10 OF 15

| CONDUCTOR | | | | FROM | | | | TO | | | | | | | |
|-------------------|----------|---|---|----------------------|-----|-----|----------|--------------------|-----|----------------------|---|---|----------|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | | | |
| TERMINATION SPEC | | | | TERMINATION SPEC | | | | TERMINATION SPEC | | | | | | | |
| NUMBER | ITEM NO. | 2 | 1 | STRIP WIRE OR JACKET | 2 | 1 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | 2 | 1 | ITEM NO. | 1 | NO. |
| | | | | | | | A 11 | | | | | | | | |
| A 20A | 6 | | | SHLD A20 | 22N | | | | | E4 | | | 37N | | |
| A 20L | | | | P1-V* | 22N | | | | | P2-V* | | | 22N | | |
| A 20R | | | | P1-U* | 22N | | | | | P2-U* | | | 22N | | |
| A 21 | 3 | | | | 480 | 450 | 7 8 5 | | | | | | 480 | 450 | A 11 7A |
| | | | | | | | A 11 | | | | | | | | |
| A 21A | 6 | | | SHLD A21 | 22N | | | | | E4 | | | 37N | | |
| A 21L | | | | P1-X* | 22N | | | | | P2-X* | | | 22N | | |
| A 21R | | | | P1-W* | 22N | | | | | P2-W* | | | 22N | | |
| A 22 | 3 | | | | 480 | 450 | 7 8 5 | | | | | | 480 | 450 | A 11 7A |
| | | | | | | | A 11 | | | | | | | | |
| A 22 | 6 | | | SHLD A22 | 22N | | | | | E4 | | | 37N | | |
| A 22L | | | | P1-BB | 22N | | | | | P2-BB | | | 22N | | |
| A 22R | | | | P1-AA | 22N | | | | | P2-AA | | | 22N | | |
| A 23 | 4 | | | | 480 | 450 | 9 10 5 | | | | | | 480 | 450 | A 11 7A |
| | | | | | | | A 11 | | | | | | | | |
| A 23A | 6 | | | SHLD A23 | 22N | | | | | E4 | | | 37N | | |
| A 23W | | | | P1-A | 22N | | | | | P2-A | | | 22N | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900975

SCALE - NONE

REV LTR +

SHEET 11 OF 15

| CONDUCTOR | | | | FROM | | | | TO | | | | | | | | | |
|-------------------|---|----------------------|--------------------|----------|-----|-------------|---|-----|--------------------|----------------------|-----|-------------|------|-------|--|-----|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | | CUT WIRE OR SHIELD | | | TERMINATION | | | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | T | | SPEC. | | NO. | | STRIP WIRE OR JACKET | | T | | SPEC. | | NO. | |
| NUMBER | | CIRCUIT POINT | | ITEM NO. | | | | | | CIRCUIT POINT | | ITEM NO. | | | | | |
| A 12W | | | P1-P | 22N | | | | | | P2-P | 22N | | | | | | |
| A 13 | 4 | | | 380 | 350 | 10 | 9 | 5 | | | 380 | 350 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 13A | 6 | | SHLD A13 | 22N | | | | | | E3 | 37N | | | | | | |
| A 13W | | | P1-M | 22N | | | | | | P2-N | 22N | | | | | | |
| A 14 | 3 | | | 380 | 350 | 8 | 9 | 5 | | | 380 | 350 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 14A | 6 | | SHLD A14 | 22N | | | | | | E3 | 37N | | | | | | |
| A 14L | | | P1-X | 22N | | | | | | P2-X | 22N | | | | | | |
| A 14R | | | P1-W | 22N | | | | | | P2-W | 22N | | | | | | |
| A 15 | 3 | | | 380 | 350 | 8 | 9 | 5 | | | 380 | 350 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 15A | 6 | | SHLD A15 | 22N | | | | | | E3 | 37N | | | | | | |
| A 15L | | | P1-Z | 22N | | | | | | P2-Z | 22N | | | | | | |
| A 15R | | | P1-Y | 22N | | | | | | P2-Y | 22N | | | | | | |
| A 16 | 3 | | | 380 | 350 | 7 | 8 | 5 | | | 380 | 350 | A 11 | 7A | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 16A | 6 | | SHLD A16 | 22N | | | | | | E3 | 37N | | | | | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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CENTER
HOUSTON, TEXAS

SIZE
A

1900975

SCALE - NONE

REV LTR +

SHEET 9 OF 15

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|-----|----------|--|----------------------|-----|----------|------|----------------------|-------|----------|-----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | |
| | | | | STRIP WIRE OR JACKET | | T I | | STRIP WIRE OR JACKET | | T I | |
| NUMBER | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | |
| A | 24 | 3 | | | 480 | 450 | 7 8 | 5 | | 480 | 450 |
| | | | | | | | A 11 | | | A 11 | 7A |
| A | 24A | 6 | | SHLD A24 | 22N | | | | E4 | 37N | |
| A | 24L | | | P1-S | 22N | | | | P2-S | 22N | |
| A | 24R | | | P1-R | 22N | | | | P2-R | 22N | |
| A | 25 | 4 | | | 530 | 500 | 9 10 | 5 | | 530 | 500 |
| | | | | | | | A 11 | | | A 11 | 7A |
| A | 25A | 6 | | SHLD A25 | 22N | | | | E5 | 37N | |
| A | 25W | | | P1-T | 22N | | | | P2-T | 22N | |
| A | 26 | 3 | | | 530 | 500 | 7 8 | 5 | | 530 | 500 |
| | | | | | | | A 11 | | | A 11 | 7A |
| A | 26A | 6 | | SHLD A26 | 22N | | | | E5 | 37N | |
| A | 26L | | | P1-F* | 22N | | | | P2-F* | 22N | |
| A | 26R | | | P1-E* | 22N | | | | P2-E* | 22N | |
| A | 27 | 3 | | | 530 | 500 | 7 8 | 5 | | 530 | 500 |
| | | | | | | | A 11 | | | A 11 | 7A |
| A | 27A | 6 | | SHLD A27 | 22N | | | | E5 | 37N | |
| A | 27L | | | P1-H* | 22N | | | | P2-H* | 22N | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNE
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
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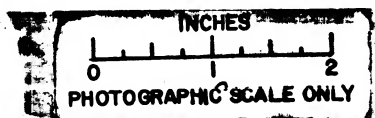
1900975

SCALE - NONE

REV LTR

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SHEET 12 OF 15



| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | TO | |
|--|---|--------------------------------------|---|--------------------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. ITEM NO. |
| A 27R | P1-G* | 22N | P2-G* | 22N |
| A 28 | 530 | 500 7 8 | 530 | 500 A 11 7A |
| A 28A | SHLD A28 | 22N | E5 | 22N |
| A 28L | P1-P* | 22N | P2-P* | 22N |
| A 28R | P1-N* | 22N | P2-N* | 22N |
| A 29 | 580 | 550 7 8 | 580 | 500 A 11 7A |
| A 29A | SHLD A29 | 22N | E5 | 37N |
| A 29L | P1-Z* | 22N | P2-Z* | 22N |
| A 29R | P1-Y* | 22N | P2-Y* | 22N |
| A 30 | 580 | 550 9 10 | 580 | 550 A 11 7A |
| A 30A | SHLD A30 | 22N | E5 | 37N |
| A 30W | P1-CC | 22N | P2-CC | 22N |
| A 31 | 580 | 550 9 10 | 580 | 550 A 11 7A |
| A 31A | SHLD A31 | 22N | E5 | 37N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MAINED
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CENTER
HOUSTON, TEXAS

SIZE
A

SCALE - NONE

REV LTR

SHEET 13 OF 15

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | TO | |
|--|---|--------------------------------------|---|--------------------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. ITEM NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. ITEM NO. |
| A 31W | P1-DD | 22N | P2-DD | 22N |
| A 32 | P1-GG | 22N | P2-GG | 22N |
| A 33 | P1-B | 22N | E1 | 37N |
| A 34 | E1 | 37N | E2 | 37N |
| A 35 | E2 | 37N | E3 | 37N |
| A 36 | E3 | 37N | E4 | 37N |
| A 37 | E4 | 37N | E5 | 37N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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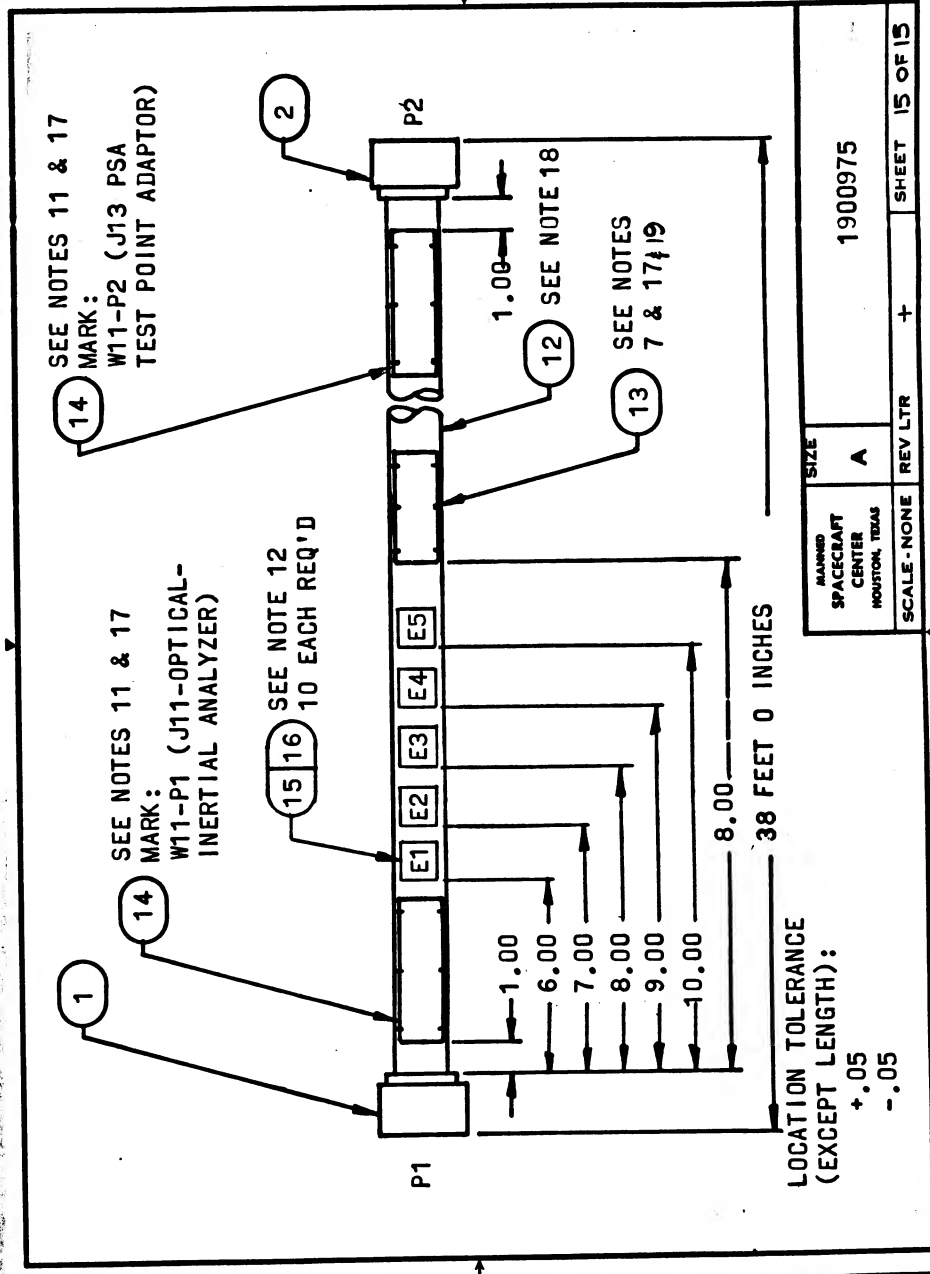
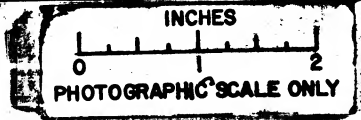
MAINED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

SCALE - NONE

REV LTR

SHEET 14 OF 15



G1D

CABLE W10

1900976

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|---|-------------------|-------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| A 1 | 3 | | 230 200 7 8 5 | | 230 200 A 11 7A |
| | | | A 11 | | |
| A 1A | 6 | SHLD A1 | 37N | E1 | 37N |
| A 1L | | P1-D | 22N | P2-D | 22N |
| A 1R | | P1-C | 22N | P2-C | 22N |
| A 2 | 3 | | 230 200 7 8 5 | | 230 200 A 11 7A |
| | | | A 11 | | |
| A 2A | 6 | SHLD A2 | 37N | E1 | 37N |
| A 2L | | P1-F | 22N | P2-F | 22N |
| A 2R | | P1-E | 22N | P2-E | 22N |
| A 3 | 5 | P1-H | 22N | P2-H | 22N |
| A 4 | 4 | | 230 200 9 10 5 | | 230 200 A 11 7A |
| | | | A 11 | | |
| A 4A | 6 | SHLD A4 | 37N | E1 | 37N |
| A 4W | | P1-G | 22N | P2-G | 22N |
| A 5 | 4 | | 230 200 9 10 5 | | 230 200 A 11 7A |
| | | | A 11 | | |
| A 5A | 6 | SHLD A5 | 37N | E1 | 37N |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900976 | |
| | | SCALE - NONE | | REV LTR + SHEET 6 OF 14 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 - 4-63 WIR

G1D

CABLE W10

1900976

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|---|-------------------|-------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| A 5W | | P1-J | 22N | P2-J | 22N |
| A 6 | 4 | | 280 250 9 10 5 | | 280 250 A 11 7A |
| | | | A 11 | | |
| A 6A | 6 | SHLD A6 | 37N | E1 | 37N |
| A 6W | | P1-K | 22N | P2-K | 22N |
| A 7 | 4 | | 280 250 9 10 5 | | 280 250 A 11 7A |
| | | | A 11 | | |
| A 7A | 6 | SHLD A7 | 37N | E1 | 37N |
| A 7W | | P1-L | 22N | P2-L | 22N |
| A 8 | 4 | | 280 250 9 10 5 | | 280 250 A 11 7A |
| | | | A 11 | | |
| A 8A | 6 | SHLD A8 | 37N | E2 | 37N |
| A 8W | | P1-M | 22N | P2-M | 22N |
| A 9 | 3 | | 280 250 7 8 5 | | 280 250 A 11 7A |
| | | | A 11 | | |
| A 9A | 6 | SHLD A9 | 37N | E2 | 37N |
| A 9L | | P1-V | 22N | P2-V | 22N |
| A 9R | | P1-U | 22N | P2-U | 22N |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900976 | |
| | | SCALE - NONE | | REV LTR + SHEET 7 OF 14 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 - 4-63 WIR

SEE ITEM REQ'D PART NUMBER
NOTE

LIST OF MATERIAL DESCRIPTION

| | | | | |
|----|----|----|---------------|---|
| 16 | 1 | 1 | MS3126F22-55S | (1897046-550) CONNECTOR PLUG |
| 16 | 2 | 1 | MS3126F22-55P | (1897045-550) CONNECTOR PLUG |
| | 3 | 1 | 1900976-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JACKET, 20 AWG WHT/BLU, WHT/RED 840 FEET TOTAL LENGTH. |
| | 4 | 1 | 1900976-002 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JACKET, 20 AWG 390 FT TOTAL LENGTH |
| | 5 | 1 | 1900976-003 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG, 190 FT. TOTAL LENGTH. |
| | 6 | 1 | 1900976-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG 25 FT. TOTAL LENGTH. |
| 10 | 7 | 23 | 1000243-011 | FERRULE - ELEC COND |
| 10 | 8 | 23 | 1000242-009 | FERRULE - ELEC COND |
| 10 | 9 | 4 | 1000243-005 | FERRULE - ELEC COND |
| 10 | 10 | 4 | 1000242-004 | FERRULE - ELEC COND |
| 10 | 11 | 60 | 1010490-198 | INSULATION - SLEEVING ELEC |
| 10 | 12 | 5 | 1016006-002 | SPLICE REDUCER |
| 10 | 13 | 5 | 1010490-258 | INSULATION SLEEVING ELEC |
| | 14 | 1 | 1900976-005 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 1 IN. DIA 42 FT. TOTAL LENGTH |
| 10 | 15 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 16 | 2 | 1016128-041 | BAND-IDENTIFICATION |
| 17 | 17 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |

| | | | |
|---|--|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900976 |
| SCALE - NONE | | REV LTR + | SHEET 5 OF 14 |

MIL 2084 - 4-63

G1D

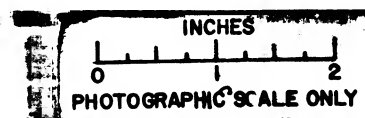
CABLE W10

1900976

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|---|-------------------|-------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| A 10 | 3 | | 330 300 7 8 5 | | 330 300 A 11 7A |
| | | | A 11 | | |
| A 10A | 6 | SHLD A10 | 37N | E2 | 37N |
| A 10L | | P1-X | 22N | P2-X | 22N |
| A 10R | | P1-W | 22N | P2-W | 22N |
| A 11 | 3 | | 330 300 7 8 5 | | 330 300 A 11 7A |
| | | | A 11 | | |
| A 11A | 6 | SHLD A11 | 37N | E2 | 37N |
| A 11L | | P1-Z | 22N | P2-Z | 22N |
| A 11R | | P1-Y | 22N | P2-Y | 22N |
| A 12 | 3 | | 330 300 7 8 5 | | 330 300 A 11 7A |
| | | | A 11 | | |
| A 12A | 6 | SHLD A12 | 37N | E2 | 37N |
| A 12L | | P1-B* | 22N | P2-B | 22N |
| A 12R | | P1-A* | 22N | P2-A* | 22N |
| A 13 | 3 | | 330 300 7 8 5 | | 330 300 A 11 7A |
| | | | A 11 | | |
| A 13A | 6 | SHLD A13 | 37N | E3 | 37N |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900976 | |
| | | SCALE - NONE | | REV LTR + SHEET 8 OF 14 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 - 4-63 WIR



| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|-----------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 17A | 6 | SHLD A17 | 37N | A 11 | | E3 | 37N | | |
| A 17L | | P1-DD | 22N | | | P2-DD | 22N | | |
| A 17R | | P1-CC | 22N | | | P2-CC | 22N | | |
| A 18 | 3 | | 430 400 7 8 | | | | 430 400 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 18A | 6 | SHLD A18 | 37N | | | E4 | 37N | | |
| A 18L | | P1-FF | 22N | | | P2-FF | 22N | | |
| A 18R | | P1-EE | 22N | | | P2-EE | 22N | | |
| A 19 | 3 | | 430 400 7 8 | | | | 430 400 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 19A | 6 | SHLD A19 | 37N | | | E4 | 37N | | |
| A 19L | | P1-HH | 22N | | | P2-HH | 22N | | |
| A 19R | | P1-GG | 22N | | | P2-GG | 22N | | |
| A 20 | 3 | | 430 400 7 8 | | | | 430 400 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 20A | 6 | SHLD A20 | 37N | | | E4 | 37N | | |
| A 20L | | P1-J* | 22N | | | P2-J* | 22N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900976 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 10 OF 14 | |

MIL 2085 - 4.63 WIR

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|-----------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 20R | | P1-I* | 22N | | | P2-I* | 22N | | |
| A 21 | 3 | | 430 400 7 8 | | | | 430 400 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 21A | 6 | SHLD A21 | 37N | | | E4 | 37N | | |
| A 21L | | P1-Z* | 22N | | | P2-Z* | 22N | | |
| A 21R | | P1-Y* | 22N | | | P2-Y* | 22N | | |
| A 22 | 3 | | 480 450 7 8 | | | | 480 450 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 22A | 6 | SHLD A22 | 37N | | | E4 | 37N | | |
| A 22L | | P1-M* | 22N | | | P2-M* | 22N | | |
| A 22R | | P1-K* | 22N | | | P2-K* | 22N | | |
| A 23 | 3 | | 480 450 7 8 | | | | 480 450 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 23A | 6 | SHLD A23 | 37N | | | E4 | 37N | | |
| A 23L | | P1-P* | 22N | | | P2-P* | 22N | | |
| A 23R | | P1-N* | 22N | | | P2-N* | 22N | | |
| A 24 | 3 | | 480 450 7 8 5 | | | | 480 450 A 11 7A | | |
| | | | | A 11 | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900976 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 11 OF 14 | |

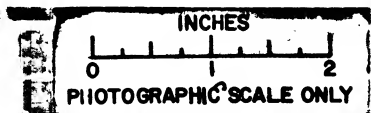
MIL 2085 - 4.63 WIR

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|-----------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13L | | P1-D* | 22N | | | P2-D* | 22N | | |
| A 13R | | P1-C* | 22N | | | P2-C* | 22N | | |
| A 14 | 3 | | 380 350 7 8 5 | | | | 380 350 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 14A | 6 | SHLD A14 | 37N | | | E3 | 37N | | |
| A 14L | | P1-F* | 22N | | | P2-F* | 22N | | |
| A 14R | | P1-E* | 22N | | | P2-E* | 22N | | |
| A 15 | 3 | | 380 350 7 8 5 | | | | 380 350 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 15A | 6 | SHLD A15 | 37N | | | E3 | 37N | | |
| A 15L | | P1-H* | 22N | | | P2-H* | 22N | | |
| A 15R | | P1-G* | 22N | | | P2-G* | 22N | | |
| A 16 | 3 | | 380 350 7 8 5 | | | | 380 350 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 16A | 6 | SHLD A16 | 37N | | | E3 | 37N | | |
| A 16L | | P1-BB | 22N | | | P2-BB | 22N | | |
| A 16R | | P1-AA | 22N | | | P2-AA | 22N | | |
| A 17 | 3 | | 380 350 7 8 5 | | | | 380 350 A 11 7A | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900976 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 9 OF 14 | |

MIL 2085 - 4.63 WIR

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|-----------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 24A | 6 | SHLD A24 | 37N | | | E5 | 37N | | |
| A 24L | | P1-R* | 22N | | | P2-R* | 22N | | |
| A 24R | | P1-Q* | 22N | | | P2-Q* | 22N | | |
| A 25 | 3 | | 480 450 7 8 | | | | 480 450 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 25A | 6 | SHLD A25 | 37N | | | E5 | 37N | | |
| A 25L | | P1-T* | 22N | | | P2-T* | 22N | | |
| A 25R | | P1-S* | 22N | | | P2-S* | 22N | | |
| A 26 | 3 | | 530 500 7 8 | | | | 530 500 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 26A | 6 | SHLD A26 | 37N | | | E5 | 37N | | |
| A 26L | | P1-V* | 22N | | | P2-V* | 22N | | |
| A 26R | | P1-U* | 22N | | | P2-U* | 22N | | |
| A 27 | 3 | | 530 500 7 8 | | | | 530 500 A 11 7A | | |
| | | | | A 11 | | | | | |
| A 27A | 6 | SHLD A27 | 37N | | | E5 | 37N | | |
| A 27L | | P1-X* | 22N | | | P2-X | 22N | | |
| A 27R | | P1-W* | 22N | | | P2-W | 22N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900976 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 12 OF 14 | |

MIL 2085 - 4.63 WIR



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| CONDUCTOR | | | FROM | | | | TO | | | |
|-----------|----------|-------------------|----------------------|---------------|-------------------|----------|----------------------|---------------|-------------------|----------|
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | | TERMINATION SPEC. | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | ITEM NO. |
| | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 28 | 5 | | P1-P | 22N | | | P2-P | 22N | | |
| A 29 | 5 | | P1-N | 22N | | | P2-N | 22N | | |
| A 30 | 5 | | P1-B | 22N | | | P2-B | 22N | | |
| A 31 | 5 | | P1-A | 22N | | | P2-A | 22N | | |
| A 32 | 3 | | | 590 500 7 8 | | | | 590 500 A 11 | 7A | |
| | | | | | | A 11 | | | | |
| A 32A | 6 | | SHLD A32 | 37N | | | E5 | 37N | | |
| A 32L | | | P1-S | 22N | | | P2-S | 22N | | |
| A 32R | | | P1-R | 22N | | | P2-R | 22N | | |
| A 33 | 6 | | P1-T | 22N | | | E1 | 37N | | |
| A 34 | 6 | | E1 | 37N | | | E2 | 37N | | |
| A 35 | 6 | | E2 | 37N | | | E3 | 37N | | |
| A 36 | 6 | | E3 | 37N | | | E4 | 37N | | |
| A 37 | 6 | | E4 | 37N | | | E5 | 37N | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

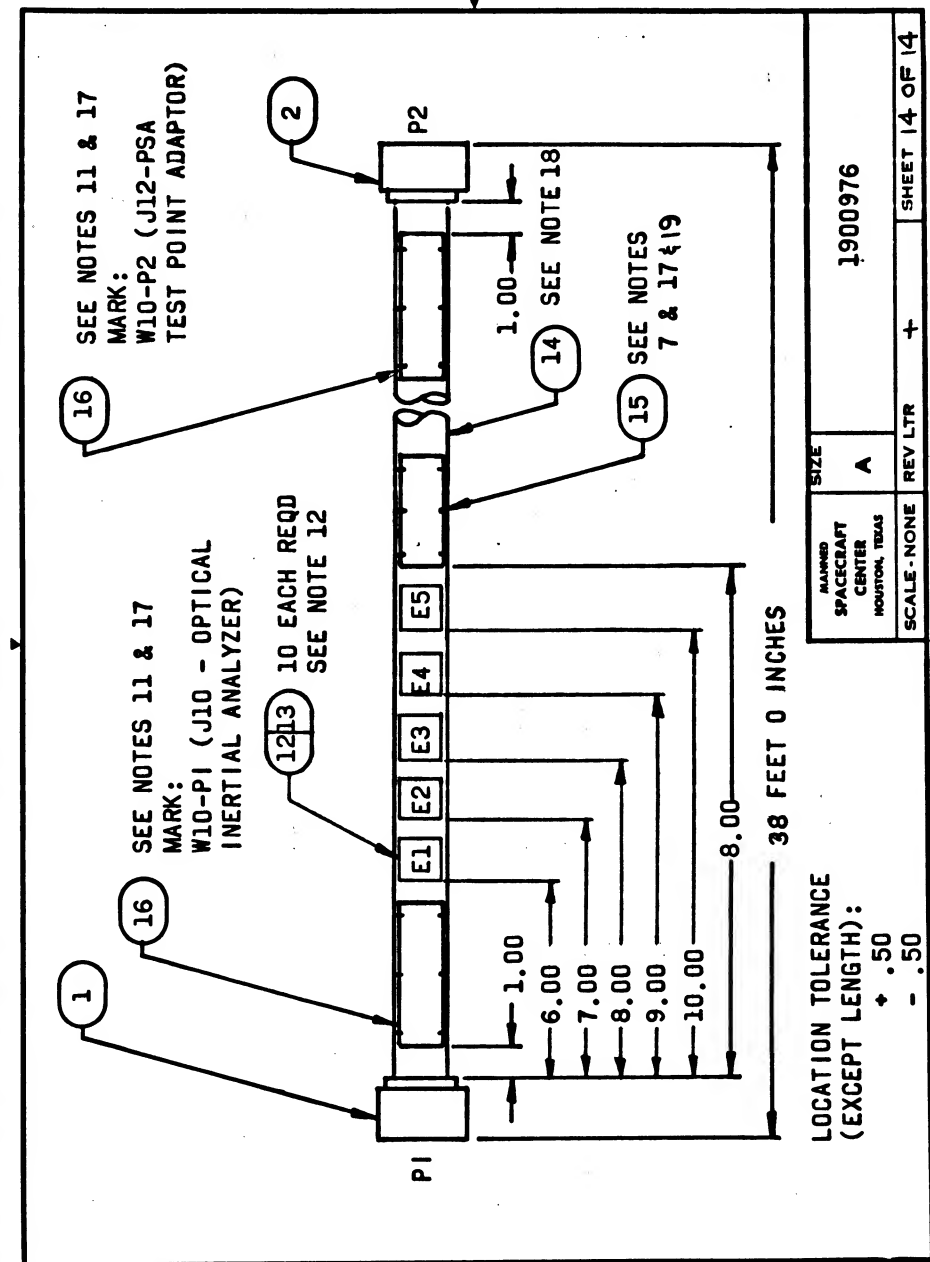
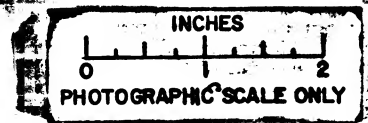
MANAGED SPACECRAFT CENTER HOUSTON, TEXAS

1900976

SCALE - NONE

REV LTR +

SHEET 13 OF 14



NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

GENERAL NOTES

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR | + |
| SHEET 2 OF 17 | | |

MIL 2084 4-63

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 19, MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.

GENERAL NOTES

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR | + |
| SHEET 3 OF 17 | | |

MIL 2084 4-63

| | | | | | |
|---|------------|-------------------|---|--------------|--------------|
| APPLICATION NEXT ASSY USED ON 1900005-011 1900005-011 | | REVISIONS DATE | | APPROVAL | |
| <p>FOR INFORMATION ONLY</p> <p>CLASS B RELEASE TDR No. 05663 DATE 1/7/64</p> | | | | | |
| REV SHEET | REV STATUS | REV OF SHEET | REV OF SHEET | REV OF SHEET | REV OF SHEET |
| 1 | + | 1 | + | 1 | + |
| 2 | + | 2 | + | 2 | + |
| 3 | + | 3 | + | 3 | + |
| 4 | + | 4 | + | 4 | + |
| 5 | + | 5 | + | 5 | + |
| 6 | + | 6 | + | 6 | + |
| 7 | + | 7 | + | 7 | + |
| 8 | + | 8 | + | 8 | + |
| 9 | + | 9 | + | 9 | + |
| 10 | + | 10 | + | 10 | + |
| 11 | + | 11 | + | 11 | + |
| 12 | + | 12 | + | 12 | + |
| 13 | + | 13 | + | 13 | + |
| 14 | + | 14 | + | 14 | + |
| 15 | + | 15 | + | 15 | + |
| 16 | + | 16 | + | 16 | + |
| 17 | + | 17 | + | 17 | + |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| ACSP PN | | | CABLE INTERCONNECT W21 ISS TESTING | | |
| DRAWN 4 NOV 63 | | | CODE IDENT NO. | | |
| CHECKED 12 NOV 63 | | | SIZE A | | |
| APPROVAL 13 NOV 63 | | | REV 1900977 | | |
| APPROVAL 1/1/64 | | | SHEET 1 OF 17 | | |
| NASA APPROVAL | | | SCALE - | | |
| MIT APPROVAL | | | CONTRACT NAS 9-497 | | |

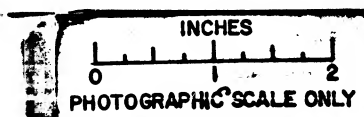
GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|---------------|-----------|-------------|-----------|
| | WIRE OR CABLE | STRIP WIRE | JACKET | CUT WIRE | SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR | + |
| SHEET 4 OF 17 | | |

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| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|-------------|---|
| | 16 | 1 | 1900977-005 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 1 INCH DIA, 40 FT. TOTAL LENGTH. |
| 10 | 17 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 18 | 2 | 1016128-041 | BAND IDENTIFICATION |
| | 19 | AR | MIL-T-713 | TAPE, LACING TYPE P, CLASS 2, BLACK (ES 2732 NO. 18) |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR + | SHEET 6 OF 17 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|-----|----------------------|-------------------|-----|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 1 | 4 | 230 200 | 8 10 | 5 | 230 200 | A 15 | 7A | | |
| | | | A 12 | | | | | | |
| A 1A | 6 | SHLD A1 | 37N | | E1 | 37N | | | |
| A 1W | | P1-C | 22N | | P2-C | 22N | | | |
| A 2 | 3 | 230 200 | 7 9 | 5 | 230 200 | A 12 | 7A | | |
| | | | A 11 | | | | | | |
| A 2A | 6 | SHLD A2 | 37N | | E1 | 37N | | | |
| A 2L | | P1-E | 22N | | P2-E | 22N | | | |
| A 2R | | P1-D | 22N | | P2-D | 22N | | | |
| A 3 | 3 | 230 200 | 7 9 | 5 | 230 200 | A 12 | 7A | | |
| | | | A 11 | | | | | | |
| A 3A | 6 | SHLD A3 | 37N | | E1 | 37N | | | |
| A 3L | | P1-V | 22N | | P2-V | 22N | | | |
| A 3R | | P1-U | 22N | | P2-U | 22N | | | |
| A 4 | 4 | 680 650 | 8 10 | 5 | 680 650 | A 15 | 7A | | |
| | | | A 12 | | | | | | |
| A 4A | 6 | SHLD A4 | 37N | | E6 | 37N | | | |
| A 4W | | P1-R | 22N | | P2-R | 22N | | | |

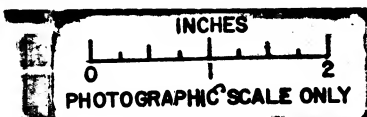
| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR + | SHEET 7 OF 17 |

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|-----------------|--|
| 16 | 1 | 1 | MS3126F-22-55SY | (1897046-553) CONNECTOR-PLUG |
| 16 | 2 | 1 | MS3126F-22-55PY | (1897045-553) CONNECTOR-PLUG |
| | 3 | 1 | 1900977-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JACKET, 20 AWG WHT/BLU WHT/RED, 380 FT. TOTAL LENGTH. |
| | 4 | 1 | -002 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JACKET, 20 AWG WHT, 1140 FT. TOTAL LENGTH. |
| | 5 | 1 | -003 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG WHT, 160 FT. TOTAL LENGTH. |
| | 6 | 1 | -004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG 70 FT. TOTAL LENGTH. |
| 10 | 7 | 10 | 1000243-014 | FERRULE ELEC CONDUCTOR |
| 10 | 8 | 30 | 1000243-005 | FERRULE ELEC CONDUCTOR |
| 10 | 9 | 10 | 1000242-012 | FERRULE ELEC CONDUCTOR |
| 10 | 10 | 30 | 1000242-004 | FERRULE ELEC CONDUCTOR |
| 10 | 11 | 10 | 1010490-192 | INSULATION SLEEVING ELEC |
| 10 | 12 | 40 | 1010490-196 | INSULATION SLEEVING ELEC |
| 10 | 13 | 6 | 1016006-003 | SPLICE REDUCER |
| 10 | 14 | 6 | 1010490-256 | INSULATION SLEEVING ELEC |
| 10 | 15 | 30 | 1010490-200 | INSULATION SLEEVING ELEC |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR + | SHEET 5 OF 17 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|-----|----------------------|-------------------|-----|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 5 | 3 | 230 200 | 7 9 | 5 | 230 200 | A 12 | 7A | | |
| | | | A 11 | | | | | | |
| A 5A | 6 | SHLD A5 | 37N | | E1 | 37N | | | |
| A 5L | | P1-X | 22N | | P2-X | 22N | | | |
| A 5R | | P1-W | 22N | | P2-W | 22N | | | |
| A 6 | 4 | 680 650 | 8 10 | 5 | 680 650 | A 15 | 7A | | |
| | | | A 12 | | | | | | |
| A 6A | 6 | SHLD A6 | 37N | | E6 | 37N | | | |
| A 6W | | P1-N | 22N | | P2-N | 22N | | | |
| A 7 | 3 | 280 250 | 7 9 | 5 | 280 250 | A 12 | 7A | | |
| | | | A 11 | | | | | | |
| A 7A | 6 | SHLD A7 | 37N | | E1 | 37N | | | |
| A 7L | | P1-Z | 22N | | P2-Z | 22N | | | |
| A 7R | | P1-Y | 22N | | P2-Y | 22N | | | |
| A 8 | 4 | 680 650 | 8 10 | 5 | 680 650 | A 15 | 7A | | |
| | | | A 12 | | | | | | |
| A 8A | 6 | SHLD A8 | 37N | | E6 | 37N | | | |
| A 8W | | P1-P | 22N | | P2-P | 22N | | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900977 |
| SCALE - NONE | REV LTR + | SHEET 8 OF 17 |



| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|---|----------------------|-----|-------------------|------|-----|---|----------------------|-----|-------------------|------|-----|---|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | |
| ITEM NO. | 2 | STRIP WIRE OR JACKET | 1 | ITEM NO. | 1 | NO. | 1 | STRIP WIRE OR JACKET | 1 | ITEM NO. | 1 | NO. | 1 |
| NUMBER | | CIRCUIT POINT | 2 | | | | | CIRCUIT POINT | 2 | | | | |
| A 14W | | P1-C* | 22N | | | | | P2-C* | 22N | | | | |
| A 15 | 4 | | 330 | 300 | 8 | 10 | 5 | | 330 | 300 | A 15 | 7A | |
| | | | | | A 12 | | | | | | | | |
| A 15A | 6 | SHLD A15 | 37N | | | | | E2 | 37N | | | | |
| A 15W | | P1-D* | 22N | | | | | P2-D* | 22N | | | | |
| A 16 | 4 | | 330 | 300 | 8 | 10 | 5 | | 330 | 300 | A 15 | 7A | |
| | | | | | A 12 | | | | | | | | |
| A 16A | 6 | SHLD A16 | 37N | | | | | E2 | 37N | | | | |
| A 16W | | P1-E* | 22N | | | | | P2-E* | 22N | | | | |
| A 17 | 4 | | 330 | 300 | 8 | 10 | 5 | | 330 | 300 | A 15 | 7A | |
| | | | | | A 12 | | | | | | | | |
| A 17A | 6 | SHLD A17 | 37N | | | | | E2 | 37N | | | | |
| A 17W | | P1-F* | 22N | | | | | P2-F* | 22N | | | | |
| A 18 | 4 | | 380 | 350 | 8 | 10 | 5 | | 380 | 350 | A 15 | 7A | |
| | | | | | A 12 | | | | | | | | |
| A 18A | 6 | SHLD A18 | 37N | | | | | E3 | 37N | | | | |
| A 18W | | P1-G* | 22N | | | | | P2-G* | 22N | | | | |
| A 19 | 4 | | 380 | 350 | 8 | 10 | 5 | | 380 | 350 | A 15 | 7A | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900977

SCALE - NONE

REV LTR +

SHEET 10 OF 17

| CONDUCTOR | | | | FROM | | | | TO | | | | | | | | |
|-------------------|----------|---|----------------------|------|-----|-------------------|----------|----|--------------------|----------------------|-----|-------------------|------|----------|---|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | 2 | STRIP WIRE OR JACKET | 2 | T | 3 | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | 2 | T | 3 | ITEM NO. | 1 | NO. |
| | | | CIRCUIT POINT | | N | | | | | CIRCUIT POINT | | N | | | | |
| | | | | | | | A 12 | | | | | | | | | |
| A 19A | 6 | | SHLD A19 | | 37N | | | | | E3 | | 37N | | | | |
| A 19W | | | P1-H* | | 22N | | | | | P2-H* | | 22N | | | | |
| A 20 | 4 | | | | 380 | 300 | 8 10 | 5 | | | 380 | 350 | A 15 | 7A | | |
| | | | | | | | A 12 | | | | | | | | | |
| A 20A | 6 | | SHLD A20 | | 37N | | | | | E3 | | 37N | | | | |
| A 20W | | | P1-I* | | 22N | | | | | P2-I* | | 22N | | | | |
| A 21 | 4 | | | | 380 | 350 | 8 10 | 5 | | | 380 | 350 | A 15 | 7A | | |
| | | | | | | | A 12 | | | | | | | | | |
| A 21A | 6 | | SHLD A21 | | 37N | | | | | E3 | | 37N | | | | |
| A 21W | | | P1-J* | | 22N | | | | | P2-J* | | 22N | | | | |
| A 22 | 4 | | | | 430 | 400 | 8 10 | 5 | | | 430 | 400 | A 15 | 7A | | |
| | | | | | | | A 12 | | | | | | | | | |
| A 22A | 6 | | SHLD A22 | | 37N | | | | | E3 | | 37N | | | | |
| A 22W | | | P1-K* | | 22N | | | | | P2-K* | | 22N | | | | |
| A 23 | 3 | | | | 430 | 400 | 7 9 | 5 | | | 430 | 400 | A 12 | 7A | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 23A | 6 | | SHLD A23 | | 37N | | | | | E3 | | 37N | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900977

SCALE - NONE

REV LTR

+

SHEET 11 OF

| CONDUCTOR | | | | FROM | | | | | TO | | | | | | |
|-------------------|-----|---|--|----------------------|-----|-----|-------------|----|----------------------|-------|-----|-------------|---|----|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION | | CUT WIRE OR SHIELD | | | TERMINATION | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | SPEC. | | STRIP WIRE OR JACKET | | | SPEC. | | | |
| CIRCUIT POINT | | | | T | | | 1 | | T | | | 1 | | | |
| NO. | | | | N | | | NO. | | N | | | NO. | | | |
| A | 9 | 3 | | | 280 | 250 | 7 | 9 | 5 | | 280 | 250 | A | 12 | 7A |
| | | | | | | | | A | 11 | | | | | | |
| A | 9A | 6 | | SHLD A9 | 37N | | | | | E1 | 37N | | | | |
| A | 9L | | | P1-S* | 22N | | | | | P2-S* | 22N | | | | |
| A | 9R | | | P1-R* | 22N | | | | | P2-R* | 22N | | | | |
| A | 10 | 5 | | P1-T* | 22N | | | | | P2-T* | 22N | | | | |
| A | 11 | 5 | | P1-J | | | | | | P2-J | 22N | | | | |
| A | 12 | 4 | | | 280 | 250 | 8 | 10 | 5 | | 280 | 250 | A | 15 | 7A |
| | | | | | | | | A | 12 | | | | | | |
| A | 12A | 6 | | SHLD A12 | 37N | | | | | E2 | 37N | | | | |
| A | 12W | | | P1-A* | 22N | | | | | P2-A* | 22N | | | | |
| A | 13 | 4 | | | 280 | 250 | 8 | 10 | 5 | | 280 | 250 | A | 15 | 7A |
| | | | | | | | | A | 12 | | | | | | |
| A | 13A | 6 | | SHLD A13 | 37N | | | | | E2 | 37N | | | | |
| A | 13W | | | P1-B* | 22N | | | | | P2-B* | 22N | | | | |
| A | 14 | 4 | | | 330 | 300 | 8 | 10 | 5 | | 330 | 300 | A | 15 | 7A |
| | | | | | | | | A | 12 | | | | | | |
| A | 14A | 6 | | SHLD A14 | 37N | | | | | E2 | 37N | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE

A

1900977

SHEET

9

OF

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|---|----------------------|------|-------|-------------------|---|-----|----------------------|---|-------|-------------------|-----|---------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| NUMBER | ITEM NO. | 2 | STRIP WIRE OR JACKET | 2 | T 1 N | ITEM NO. | 1 | NO. | STRIP WIRE OR JACKET | 2 | T 1 N | ITEM NO. | 1 | NO. |
| | | | CIRCUIT POINT | 2 | | | | | CIRCUIT POINT | 2 | | | | |
| A 23L | | | P1-N* | | 22N | | | | P2-N* | | 22N | | | |
| A 23R | | | P1-M* | | 22N | | | | P2-M* | | 22N | | | |
| A 24 | 3 | | | | 430 | 400 | 7 | 9 | 5 | | | 430 | 400 | A 12 7A |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A 24A | 6 | | SHLD A24 | | 37N | | | | E4 | | 37N | | | |
| A 24L | | | P1-V* | | 22N | | | | P2-V* | | 22N | | | |
| A 24R | | | P1-U* | | 22N | | | | P2-U* | | 22N | | | |
| A 25 | 3 | | | | 430 | 400 | 7 | 9 | 5 | | | 430 | 400 | A 12 7A |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A 25A | 6 | | SHLD A25 | | 37N | | | | E4 | | 37N | | | |
| A 25L | | | P1-H | | 22N | | | | P2-H | | 22N | | | |
| A 25R | | | P1-G | | 22N | | | | P2-G | | 22N | | | |
| A 26 | 3 | | | | 480 | 450 | 7 | 9 | 5 | | | 480 | 450 | A 12 7A |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A 26A | 6 | | SHLD A26 | | 37N | | | | E4 | | 37N | | | |
| A 26L | | | P1-T | | 22N | | | | P2-T | | 22N | | | |
| A 26R | | | P1-S | | 22N | | | | P2-S | | 22N | | | |
| A 27 | 4 | | | | 480 | 450 | 8 | 10 | | | | 480 | 450 | A 15 7A |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

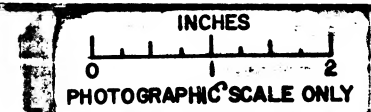
SIZE

A

1900977

REV LTR +

SHEET 12 OF



| CONDUCTOR | | FROM | | TO | |
|--|---|---|----------------|--------------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| A 31W | 6 | P1-DD | 22N | P2-DD | 22N |
| A 32 | 4 | | 530 500 8 10 5 | | 530 500 A 15 7A |
| | | | A 12 | | |
| A 32A | 6 | SHLD A32 | 37N | E5 | 37N |
| A 32W | | P1-EE | 22N | P2-EE | 22N |
| A 33 | 4 | | 530 500 8 10 5 | | 530 500 A 15 7A |
| | | | A 12 | | |
| A 33A | 6 | SHLD A33 | 37N | E5 | 37N |
| A 33W | | P1-FF | 22N | P2-FF | 22N |
| A 34 | 4 | | 580 550 8 10 5 | | 580 550 A 15 7A |
| | | | A 12 | | |
| A 34A | 6 | SHLD A34 | 37N | E5 | 37N |
| A 34W | | P1-GG | 22N | P2-GG | 22N |
| A 35 | 4 | | 580 550 8 10 5 | | 580 550 A 15 7A |
| | | | A 12 | | |
| A 35A | 6 | SHLD A35 | 37N | E5 | 37N |
| A 35W | | P1-HH | 22N | P2-HH | 22N |
| A 36 | 4 | | 580 500 8 10 5 | | 580 550 A 15 7A |
| | | | A 12 | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900977 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR + SHEET 14 OF 17 | |

MIL 2085 - 4-63 WIR

| CONDUCTOR | | FROM | | TO | |
|--|---|---|----------------|--------------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| | | | | A 12 | |
| A 36A | 6 | SHLD A36 | 37N | E6 | 37N |
| A 36W | | P1-W* | 22N | P2-W* | 22N |
| A 37 | 4 | | 580 550 8 10 5 | | 580 550 A 15 7A |
| | | | A 12 | | |
| A 37A | 6 | SHLD A37 | 37N | E6 | 37N |
| A 37W | | P1-X* | 22N | P2-X* | 22N |
| A 38 | 4 | | 630 600 8 10 5 | | 630 600 A 15 7A |
| | | | A 12 | | |
| A 38A | 6 | SHLD A38 | 37N | E6 | 37N |
| A 38W | | P1-Y* | 22N | P2-Y* | 22N |
| A 39 | 4 | | 630 600 8 10 5 | | 630 600 A 15 7A |
| | | | A 12 | | |
| A 39A | 6 | SHLD A39 | 37N | E6 | 37N |
| A 39W | | P1-Z* | 22N | P2-Z* | 22N |
| A 40 | 4 | | 630 600 8 10 5 | | 630 600 A 15 7A |
| | | | A 12 | | |
| A 40A | 6 | SHLD A40 | 37N | E6 | 37N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900977 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR + SHEET 15 OF 17 | |

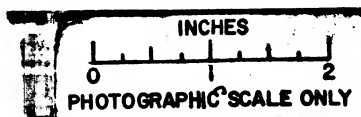
MIL 2085 - 4-63 WIR

| CONDUCTOR | | FROM | | TO | |
|--|---|---|----------------|--------------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| | | | | A 12 | |
| A 27A | 6 | SHLD A27 | 37N | E4 | 37N |
| A 27W | | P1-F | 22N | P2-F | 22N |
| A 28 | 4 | | 480 450 8 10 | | 480 450 A 15 7A |
| | | | A 12 | | |
| A 28A | 6 | SHLD A28 | 37N | E4 | 37N |
| A 28W | | P1-AA | 22N | P2-AA | 22N |
| A 29 | 4 | | 480 450 8 10 5 | | 480 450 A 15 7A |
| | | | A 12 | | |
| A 29A | 6 | SHLD A29 | 37N | E4 | 37N |
| A 29W | | P1-BB | 22N | P2-BB | 22N |
| A 30 | 4 | | 530 500 8 10 5 | | 530 500 A 15 7A |
| | | | A 12 | | |
| A 30A | 6 | SHLD A30 | 37N | E5 | 37N |
| A 30W | | P1-CC | 22N | P2-CC | 22N |
| A 31 | 4 | | 530 500 8 10 5 | | 530 500 A 15 7A |
| | | | A 12 | | |
| A 31A | 6 | SHLD A31 | 37N | E5 | 37N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900977 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR + SHEET 13 OF 17 | |

MIL 2085 - 4-63 WIR

| CONDUCTOR | | FROM | | TO | |
|--|---|---|--------------|--------------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| 1 | | 2 | | 3 | |
| NO. | | ITEM NO. | | ITEM NO. | |
| A 40W | | P1-A | 22N | P2-A | 22N |
| A 41 | 4 | | 630 600 8 10 | | 630 600 A 15 7A |
| | | | A 12 | | |
| A 41A | 6 | SHLD A41 | 37N | E6 | 37N |
| A 41W | | P1-K | 22N | P2-K | 22N |
| A 42 | 3 | | 680 650 7 9 | | 680 650 A 12 7A |
| | | | A 11 | | |
| A 42A | 6 | SHLD A42 | 37N | E6 | 37N |
| A 42L | | P1-Q* | 22N | P2-Q* | 22N |
| A 42R | | P1-P* | 22N | P2-P* | 22N |
| A 43 | 5 | P1-L | 22N | P2-L | 22N |
| A 44 | 5 | P1-M | 22N | P2-M | 22N |
| A 45 | 6 | E1 | 37N | P2-B | 22N |
| A 46 | 6 | E1 | 37N | E2 | 37N |
| A 47 | 6 | E2 | 37N | E3 | 37N |
| A 48 | 6 | E3 | 37N | E4 | 37N |
| A 49 | 6 | E4 | 37N | E5 | 37N |
| A 50 | 6 | E5 | 37N | E6 | 37N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900977 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR + SHEET 16 OF 17 | |

MIL 2085 - 4-63 WIR



| GIF | | CABLE W51 | | A | | 1900978 | |
|--------------|--|---|--|-----------|--|---------------|--|
| PENNANT NOTE | | GENERAL NOTES | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING, ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900978 | |
| | | SCALE-NONE | | REV LTR A | | SHEET 2 OF 14 | |

| GIF | | CABLE W51 | | A | | 1900978 | |
|--------------|---|---|--|-----------|--|---------------|--|
| PENNANT NOTE | | GENERAL NOTES | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER W - WHITE | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002159 | | | | | | |
| 19 | SERIALIZE PER ND1002029 | | | | | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 1. | | | | | | |
| 21 | ITEM 24 FURNISHED WITH ITEM 2. | | | | | | |
| 22 | ITEM 25 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 25 AS REQUIRED TO FIT. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900978 | |
| | | SCALE-NONE | | REV LTR A | | SHEET 3 OF 14 | |

| GIF | | CABLE W51 | | A | | 1900978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---------------|--|--------------|-----------|-----------|---------------|--|--|---------------|------------|--------------|------|----------|--------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|--|-----------|-----------|-----------|-----------|-------------|-----------|--|--|--|--|--|
| PENNANT NOTE | | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th></th> <th>WIRE OR CABLE</th> <th>STRIP WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT WIRE</th> <th>SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | WIRE | CUT WIRE | SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | +2.00-.00 | | | | | |
| | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | WIRE | CUT WIRE | SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | | REV LTR A | | SHEET 4 OF 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GIF | | CABLE W51 | | A | | 1900978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---------------|--|--------------|-----------|-----------|---------------|--|--|---------------|------------|--------------|------|----------|--------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|--|-----------|-----------|-----------|-----------|-------------|-----------|--|--|--|--|--|
| PENNANT NOTE | | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th></th> <th>WIRE OR CABLE</th> <th>STRIP WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT WIRE</th> <th>SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | WIRE | CUT WIRE | SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | +2.00-.00 | | | | | |
| | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | WIRE | CUT WIRE | SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | | REV LTR A | | SHEET 4 OF 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|----------|------|-------------------|-------------------------------|---|--|---------|--|
| GIF | | CABLE W51 | | B | | 1900978 | |
| PENNMANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 16 | 1 | 1 | MS3126F-24-61PW (1897047-611) | CONNECTOR-PLUG | | | |
| 16 | 2 | 1 | MS3126F-24-61SW (1897048-611) | CONNECTOR-PLUG | | | |
| | 3 | 1 | 1900978-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 20AWG WHT/BLU, WHT/RED 252 FT. TOTAL LENGTH | | | |
| | 4 | 1 | 1900978-002 | WIRE ND1002181 TYPE 1, CLASS 4 WHT JACKET, 20AWG WHT 126 FT. TOTAL LENGTH | | | |
| | 5 | 1 | 1900978-003 | WIRE ND1002181 TYPE 3, CLASS 4, WHT JACKET, 20AWG WHT/BLU, WHT/RED, WHT/YEL 54 FT. TOT. LG | | | |
| | 6 | 1 | 1900978-004 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG WHT 36 FT TOTAL LENGTH | | | |
| 10 | 7 | 4 | 1000243-015 | FERRULE, ELEC COND | | | |
| 10 | 8 | 4 | 1000242-016 | FERRULE, ELEC COND | | | |
| 10 | 9 | 19 | 1010490-194 | INSULATION, SLEEVEING ELEC | | | |
| 10 | 10 | 14 | 1000243-011 | FERRULE, ELEC COND | | | |
| 10 | 11 | 14 | 1000242-009 | FERRULE, ELEC COND | | | |
| 10 | 12 | 7 | 1000243-004 | FERRULE, ELEC COND | | | |
| 10 | 13 | 7 | 1000242-004 | FERRULE, ELEC COND | | | |
| 10 | 14 | 23 | 1010490-196 | INSULATION, SLEEVEING ELEC | | | |
| 10 | 15 | 5 | 1016006-002 | SPLICE REDUCER | | | |
| 10 | 16 | 5 | 1010490-258 | INSULATION SLEEVEING | | | |

| | | | |
|--|---------|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900978 |
| SCALE-NONE | REV LTR | B | SHEET 5 OF 14 |

| | | | | | | | |
|---------|------|-------------------|-----------------------|---|--|---------|--|
| GIF | | CABLE W51 | | A | | 1900978 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 10 | 17 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| 10 | 18 | 1 | 1016128-011 | BAND IDENTIFICATION | | | |
| | 19 | 1 | 1900978-005 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT 30 FT., TOTAL LENGTH | | | |
| 10 | 20 | 7 | 1010490-200 | INSULATION SLEEVEING ELEC | | | |
| | 21 | 1 | 1900978-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC FLEXIBLE 1.00 INCH DIA. 18 FT. TOTAL LENGTH | | | |
| | 22 | AR | MIL-T-713 | TAPE, LACING TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 20 | 23 | | | CONTACT PINS | | | |
| 21 | 24 | | | CONTACT SOCKETS | | | |
| 22 | 25 | AR | 1897147-108,-112,-116 | CABLE CLAMP SLEEVE | | | |
| 10 | 26 | 2 | 1016282-24 | GROMMET | | | |

| | | | |
|--|---------|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900978 |
| SCALE-NONE | REV LTR | A | SHEET 6 OF 14 |

| GIF | | CABLE W51 | | A | | 1900978 | |
|-------------------|----------|----------------------|-------------------|--|-------------------|---------|---------------|
| CONDUCTOR | | FROM | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | NO. | |
| A 1 | 3 | 230 200 10 11 5 | A 9 | 230 200 A 14 7A | | | |
| A 1A | 19 | SHLD A1 | 22N | E1 | 37N | | |
| A 1L | | P1-F* | 22N | P2-F* | 22N | 24 | |
| A 1R | | P1-E* | 22N | P2-E* | 22N | 24 | |
| A 2 | 3 | 230 200 10 11 5 | A 9 | 230 200 A 14 7A | | | |
| A 2A | 19 | SHLD A2 | 22N | E1 | | | |
| A 2L | | P1-H* | 22N | P2-H* | | 24 | |
| A 2R | | P1-G* | 22N | P2-G* | | 24 | |
| A 3 | 3 | 230 200 10 11 5 | A 9 | 230 200 A 14 7A | | | |
| A 3A | 19 | SHLD A3 | 22N | E1 | 37N | | |
| A 3L | | P1-J* | 22N | P2-J* | 22N | 24 | |
| A 3R | | P1-I* | 22N | P2-I* | 22N | 24 | |
| A 4 | 3 | 230 200 10 11 5 | A 9 | 230 200 A 14 7A | | | |
| A 4A | 19 | SHLD A4 | 22N | E1 | 37N | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 | |
| | | | | SCALE-NONE | REV LTR | A | SHEET 7 OF 14 |

| GIF | | CABLE W51 | | C | | 1900978 | |
|-------------------|----------|----------------------|-------------------|--|-------------------|---------|---------------|
| CONDUCTOR | | FROM | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | NO. | |
| A 4L | | P1-M* | 22N | P2-M* | 37N | 24 | |
| A 4R | | P1-K* | 22N | P2-K* | 37N | 24 | |
| A 5 | 3 | 280 250 10 11 5 | A 9 | 280 250 A 14 7A | | | |
| A 5A | 19 | SHLD A5 | 22N | E1 | 37N | | |
| A 5L | | P1-P* | 22N | P2-P* | 22N | 24 | |
| A 5R | | P1-N* | 22N | P2-N* | 22N | 24 | |
| A 6 | 4 | 280 250 12 13 5 | A 14 | 280 250 A 20 7A | | | |
| A 6A | 19 | SHLD A6 | 22N | E1 | 37N | | |
| A 6L | | P1-Q* | 22N | P2-Q* | 22N | 24 | |
| A 7 | 3 | 280 250 10 11 5 | A 9 | 280 250 A 14 7A | | | |
| A 7A | 19 | SHLD A7 | 22N | E2 | 37N | | |
| A 7L | | P1-S* | 22N | P2-S* | 22N | 24 | |
| A 7R | | P1-R* | 22N | P2-R* | 22N | 24 | |
| A 8 | 3 | 280 250 10 11 5 | A 9 | 280 250 A 14 7A | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 | |
| | | | | SCALE-NONE | REV LTR | C | SHEET 8 OF 14 |

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|---|----------------------|------|-----|-------------------|----------------------|-----|--------------------|---------|----------------------|-------------------|---|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 2 | 1 | NO. | STRIP WIRE OR JACKET | 2 | 1 | NO. | STRIP WIRE OR JACKET | 2 | 1 | NO. |
| | | | CIRCUIT POINT | 3 | 2 | 1 | CIRCUIT POINT | 3 | 2 | 1 | ITEM NO. | | | |
| A 8A | 19 | | SHLD A8 | 22N | | | E2 | 37N | | | | | | |
| A 8L | | | P1-U* | 22N | 23 | | P2-U* | 22N | 24 | | | | | |
| A 8R | | | P1-T* | 22N | 23 | | P2-T* | 22N | 24 | | | | | |
| A 9 | 5 | | | 300 | 300 | 7 8 5 | | 330 | 300 | 7 8 5 | | | | |
| | | | | | | A 9 | | | | | A 9 | | | |
| A 9A | 19 | | SHLD A9 | 37N | | | P1-W | 22N | 23 | | | | | |
| A 9B | 19 | | P2-W | | 24 | | SHLD A9 | 37N | | | | | | |
| A 9L | | | P1-W* | 22N | 23 | | P2-W* | 22N | 24 | | | | | |
| A 9R | | | P1-V* | 22N | 23 | | P2-V* | 22N | 24 | | | | | |
| A 9Y | | | P1-X* | 22N | 23 | | P2-X* | 22N | 24 | | | | | |
| A 10 | 3 | | | 300 | 300 | 10 11 5 | | 330 | 300 | A 14 7A | | | | |
| | | | | | | A 9 | | | | | | | | |
| A 10A | 19 | | SHLD A10 | 22N | | | E3 | 37N | | | | | | |
| A 10L | | | P1-Z* | 22N | 23 | | P2-Z* | 22N | 24 | | | | | |
| A 10R | | | P1-Y* | 22N | 23 | | P2-Y* | 22N | 24 | | | | | |
| A 11 | 3 | | | 300 | 350 | 10 11 | | 380 | 350 | A 11 7A | | | | |
| | | | | | | A 9 | | | | | | | | |
| A 11A | 19 | | SHLD A11 | 22N | | | E3 | 37N | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANDED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900978

SCALE - NONE

REV LTR B

SHEET 9 OF 14

WIL 2005 - 4-65 WIL

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|---|---|------------------------------------|-----|----|------|------------------------------------|-----|-----|------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | |
| NUMBER | ITEM NO. | 3 | 1 | STRIP WIRE OR JACKET CIRCUIT POINT | 3 | 1 | NO. | STRIP WIRE OR JACKET CIRCUIT POINT | 3 | 1 | NO. |
| A 11L | | | | P1-BB | | | | P2-BB | | | |
| A 11R | | | | P1-AA | | | | P2-AA | | | |
| A 12 | 4 | | | 380 | 350 | 12 | 13 | | 380 | 350 | A 20 |
| | | | | | | | A 14 | | | | |
| A 12A | 19 | | | SHLD A12 | | | | E3 | | | |
| A 12W | | | | P1-CC | | | | P2-CC | | | |
| A 13 | 5 | | | 380 | 350 | 7 | 8 | | 380 | 350 | 7 |
| | | | | | | | A 9 | | | | |
| A 13A | 19 | | | SHLD A13 | | | | P1-X | | | |
| A 13B | 19 | | | P2-X | | | | SHLD A13 | | | |
| A 13L | | | | P1-EE | | | | P2-EE | | | |
| A 13R | | | | P1-DD | | | | P2-DD | | | |
| A 13Y | | | | P1-FF | | | | P2-FF | | | |
| A 14 | 3 | | | 430 | 400 | 10 | 11 | | 430 | 400 | A 14 |
| | | | | | | | A 9 | | | | |
| A 14A | 19 | | | SHLD A14 | | | | E4 | | | |
| A 14L | | | | P1-MH | | | | P2-MH | | | |
| A 14R | | | | P1-GG | | | | P2-GG | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANPED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900978

SCALE - NONE

REV LTR 8

SHEET 10 OF

MIL 2085 - 4.65 W1

| CONDUCTOR | | | | | FROM | | | | | TO | | | | | | | | | | | | | |
|-------------------|-----|----------|--|---------------------|--------------------|---------------|-----|----------|----|-------------------|----|--------------------|--|---------------------|-----|---------------|---|----------|----|-------------------|--|-----|--|
| INDIVIDUAL LENGTH | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | | | | | |
| NUMBER | | ITEM NO. | | STEP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | NO. | | CUT WIRE OR SHIELD | | STEP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | TERMINATION SPEC. | | NO. | |
| A | 15 | 4 | | | | | 400 | 400 | 12 | 13 | 5 | | | | 400 | 400 | A | 20 | 7A | | | | |
| | | | | | | | | | | A | 14 | | | | | | | | | | | | |
| A | 15A | 19 | | | SHLD A15 | | 22N | | | | | E4 | | 37N | | | | | | | | | |
| A | 15W | | | | P1-A | | 22N | | 23 | | | P2-A | | 22N | | 24 | | | | | | | |
| A | 16 | 4 | | | | | 400 | 400 | 12 | 13 | 5 | | | | 400 | 400 | A | 20 | 7A | | | | |
| | | | | | | | | | | | A | 14 | | | | | | | | | | | |
| A | 16A | 19 | | | SHLD A16 | | 22N | | | | | E4 | | 37N | | | | | | | | | |
| A | 16W | | | | P1-C | | 22N | | 23 | | | P2-C | | 22N | | 24 | | | | | | | |
| A | 17 | 4 | | | | | 400 | 450 | 12 | 13 | 5 | | | | 400 | 450 | A | 20 | 7A | | | | |
| | | | | | | | | | | | A | 14 | | | | | | | | | | | |
| A | 17A | 19 | | | SHLD A17 | | 22N | | | | | E4 | | 37N | | | | | | | | | |
| A | 17W | | | | P1-D | | 22N | | 23 | | | P2-D | | 22N | | 24 | | | | | | | |
| A | 18 | 4 | | | | | 400 | 450 | 12 | 13 | 5 | | | | 400 | 450 | A | 20 | 7A | | | | |
| | | | | | | | | | | | A | 14 | | | | | | | | | | | |
| A | 18A | 19 | | | SHLD A18 | | 22N | | | | | E4 | | 37N | | | | | | | | | |
| A | 18W | | | | P1-E | | 22N | | 23 | | | P2-E | | 22N | | 24 | | | | | | | |
| A | 19 | 4 | | | | | 400 | 450 | 12 | 13 | 5 | | | | 400 | 450 | A | 20 | 7A | | | | |
| | | | | | | | | | | | A | 14 | | | | | | | | | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANPED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900978

SCALE - NONE

REV LTR
B

SHEET 11 OF 14

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|----------------------|-----|---|---|---|--------------------|---|---|---|----|-------------------|----|----|----|----|----------------------|----|----|----|----|-------------------|----|----|----|----|----------|----|----|----|----|
| INDIVIDUAL LENGTH | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | |
| ITEM NO. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| NUMBER | NO. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| A 19A | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 19M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 20 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 20A | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 20L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 20R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 21 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 21A | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 21L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 21R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 22 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 22A | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 22L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 22R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 23 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE

A

REV LTR

1900978

SHEET 12 OF

TABLE 1. *Continued*

| CONDUCTOR | | FROM | | TO | |
|-------------------|----|--------------------|---------|--------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | CIRCUIT POINT | | CIRCUIT POINT | |
| NUMBER | | ITEM NO. | | ITEM NO. | |
| A 23A | 19 | SHLD A23 | 22N | E5 | 37N |
| A 23L | | P1-P | 22N | P2-P | 22N |
| A 23R | | P1-M | 22N | P2-M | 22N |
| A 24 | 6 | P1-R | 22N | P2-R | 22N |
| A 25 | 6 | P1-S | 22N | P2-S | 22N |
| A 26 | 5 | | 530 500 | | 530 500 |
| A 26A | 19 | SHLD A26 | 22N | E5 | 37N |
| A 26L | | P1-U | 22N | P2-U | 22N |
| A 26R | | P1-T | 22N | P2-T | 22N |
| A 26Y | | P1-V | 22N | P2-V | 22N |
| A 27 | 19 | P1-B | 22N | E1 | 22N |
| A 28 | 19 | E1 | 22N | E2 | 22N |
| A 29 | 19 | E2 | 22N | E3 | 22N |
| A 30 | 19 | E3 | 22N | E4 | 22N |
| A 31 | 19 | E4 | 22N | E5 | 22N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

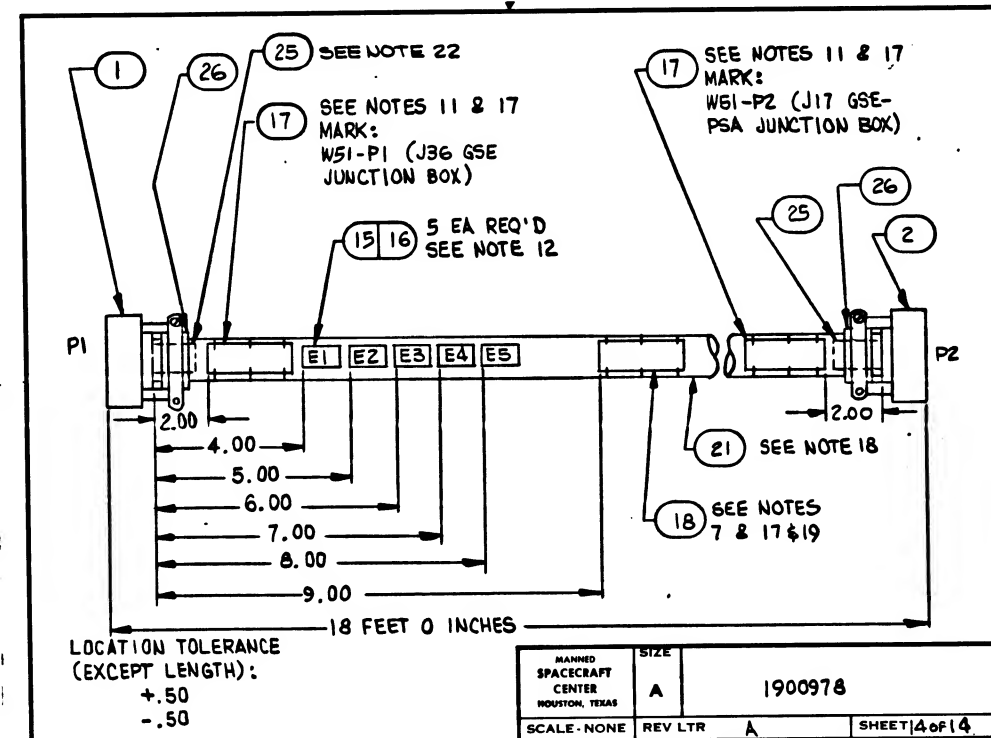
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS

SCALE - NONE

REV LTR B

SHEET 13 OF 14



| GIF | | CABLE W51 | | 1900978 | |
|---------|----------|-----------------------|--|---------|--|
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | |
| 10 | 17 2 | 1016128-041 | BAND IDENTIFICATION | | |
| 10 | 18 1 | 1016128-011 | BAND IDENTIFICATION | | |
| | 19 1 | 1900978-005 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT 30 FT., TOTAL LENGTH. | | |
| 10 | 20 7 | 1010490-200 | INSULATION SLEEVING ELEC | | |
| | 21 1 | 1900978-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC FLEXIBLE 1.00 INCH DIA. 18 FT. TOTAL LENGTH | | |
| | 22 AR | MIL-T-713 | TAPE, LACING TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | |
| 20 | 23 | | CONTACT PINS | | |
| 21 | 24 | | CONTACT SOCKETS | | |
| 22 | 25 AR | 1897147-108,-112,-116 | CABLE CLAMP SLEEVE | | |
| 10 | 26 2 | 1016282-24 | GROMMET | | |
| | 27 1 | 1900978-007 | WIRE COAXIAL MIL-C-17/69A RG188 A/U 52 FEET TOTAL LENGTH | | |
| 10 | 28 9 | 1000243-006 | FERRULE ELEC. COND. | | |
| 10 | 29 9 | 1000242-005 | FERRULE ELEC. COND. | | |
| 10 | 30 5 | 1016369-188 | INNER MALE CONTACT | | |
| 10 | 31 5 | 1016369-488 | OUTER FEMALE CONTACT | | |
| 10 | 32 5 | 1016369-588 | HYRING | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE-NONE | REV LTR F | SHEET 6 OF 18 |

| GIF | | CABLE W51 | | 1900978 | |
|---------|----------|-------------------|---|---------|--|
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | |
| 10 | 33 8 | 1016369-421 | PIN CONTACT FEMALE | | |
| | 34 2 | 1900978-008 | TUBING MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK FIT PER 1016197-007, 3 FT. LENGTH | | |
| 10 | 35 2 | 1016369-141 | CONNECTOR | | |
| | 36 1 | 1902170-001 | POLARIZING SHELL | | |
| | 37 1 | 1902170-002 | POLARIZING SHELL | | |
| | 39 1 | 1900978-009 | ZIPPER TUBING ND1002155 TYPE 1 PLASTIC FLEXIBLE 1 1/2 IN. DIA. 5 IN. TOT. LGTH. | | |
| 10 | 38 2 | 1016006-001 | SPlice REDUCER | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE-NONE | REV LTR F | SHEET 7 OF 18 |

| GIF | | CABLE W51 | | 1900978 | |
|---------|----------|-------------------------------|--|---------|--|
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | |
| 16 | 1 1 | MS3126F-24-61PW (1897047-611) | CONNECTOR-PLUG | | |
| 16 | 2 1 | MS3126F-24-61SW (1897048-611) | CONNECTOR-PLUG | | |
| | 3 1 | 1900978-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 20AWG WHT/BLU, WHT/RED 198 FT. TOTAL LENGTH | | |
| | 4 1 | 1900978-002 | WIRE ND1002181 TYPE 1, CLASS 4 WHT JACKET, 20AWG WHT 90 FT. TOTAL LENGTH | | |
| | 5 1 | 1900978-003 | WIRE ND1002181 TYPE 3, CLASS 4, WHT JACKET, 20AWG WHT/BLU, WHT/RED, WHT/YEL 24 FT. TOT. LG | | |
| | 6 1 | 1900978-004 | WIRE ND1002181 TYPE 1, CLASS 1, 20AWG WHT 36 FT TOTAL LENGTH | | |
| 10 | 7 4 | 1000243-015 | FERRULE, ELEC COND | | |
| 10 | 8 4 | 1000242-016 | FERRULE, ELEC COND | | |
| 10 | 9 19 | 1010490-194 | INSULATION, SLEEVING ELEC | | |
| 10 | 10 11 | 1000243-011 | FERRULE, ELEC COND | | |
| 10 | 11 11 | 1000242-009 | FERRULE, ELEC COND | | |
| 10 | 12 4 | 1000243-004 | FERRULE, ELEC COND | | |
| 10 | 13 4 | 1000242-004 | FERRULE, ELEC COND | | |
| 10 | 14 23 | 1010490-196 | INSULATION, SLEEVING ELEC | | |
| 10 | 15 5 | 1016006-002 | SPlice REDUCER | | |
| 10 | 16 5 | 1010490-258 | INSULATION SLEEVING | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE-NONE | REV LTR D | SHEET 5 OF 18 |

| GIF | | CABLE W51 | | 1900978 | | | | | |
|-------------------|----------|----------------------|-------------------|-------------|----------------------|-------------------|-------------|--|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 1 | | DELETED | | | | | | | |
| | | DELETED | | | | | | | |
| A 1A | | DELETED | | | | | | | |
| A 1L | | DELETED | | | | | | | |
| A 1R | | DELETED | | | | | | | |
| A 2 | 3 | | 230 | 200 10 11 5 | | 230 | 200 A 14 7A | | |
| | | | | A 9 | | | | | |
| A 2A 19 | | SHLD A2 | 22N | | E1 | | | | |
| A 2L | | P1-H* | 22N | 23 | P2-H* | | 24 | | |
| A 2R | | P1-G* | 22N | 23 | P2-G* | | 24 | | |
| A 3 | | DELETED | | | | | | | |
| | | DELETED | | | | | | | |
| A 3A | | DELETED | | | | | | | |
| A 3L | | DELETED | | | | | | | |
| A 3R | | DELETED | | | | | | | |
| A 4 | 3 | | 230 | 200 10 11 5 | | 230 | 200 A 14 7A | | |
| | | | | A 9 | | | | | |
| A 4A 19 | | SHLD A4 | 22N | | E1 | | 37N | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE-NONE | REV LTR D | SHEET 8 OF 18 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

GIF CABLE W51 R D 1900978

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|--------------------|----------------------|---------------|----------|----------------------|-------------------|----------|----------|--|
| INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | ITEM NO. | |
| A 8A 19 | SHLD A8 | 22N | | | E2 | 37N | | | |
| A 8L | P1-U* | 22N | 23 | | P2-U* | 22N | 24 | | |
| A 8R | P1-T* | 22N | 23 | | P2-T* | 22N | 24 | | |
| A 9 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 9A | DELETED | | | | | | | | |
| A 9B | DELETED | | | | | | | | |
| A 9L | DELETED | | | | | | | | |
| A 9R | DELETED | | | | | | | | |
| A 9Y | DELETED | | | | | | | | |
| A 10 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 10A | DELETED | | | | | | | | |
| A 10L | DELETED | | | | | | | | |
| A 10R | DELETED | | | | | | | | |
| A 11 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 11A | DELETED | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR R D SHEET 10 OF 18

GIF CABLE W51 R D 1900978

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|--------------------|----------------------|---------------|----------|----------------------|-------------------|----------|----------|--|
| INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | ITEM NO. | |
| A 11L | DELETED | | | | | | | | |
| A 11R | DELETED | | | | | | | | |
| A 12 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 12A | DELETED | | | | | | | | |
| A 12W | DELETED | | | | | | | | |
| A 13 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 13A | DELETED | | | | | | | | |
| A 13B | DELETED | | | | | | | | |
| A 13L | DELETED | | | | | | | | |
| A 13R | DELETED | | | | | | | | |
| A 13Y | DELETED | | | | | | | | |
| A 14 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 14A | DELETED | | | | | | | | |
| A 14L | DELETED | | | | | | | | |
| A 14R | DELETED | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR R D SHEET 11 OF 18

GIF CABLE W51 R D 1900978

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|--------------------|----------------------|---------------|----------|----------------------|-------------------|----------|----------|--|
| INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | ITEM NO. | |
| A 4L | P1-M* | 22N | 23 | | P2-M* | 37N | 24 | | |
| A 4R | P1-K* | 22N | 23 | | P2-K* | 37N | 24 | | |
| A 5 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 5A | DELETED | | | | | | | | |
| A 5L | DELETED | | | | | | | | |
| A 5R | DELETED | | | | | | | | |
| A 6 | DELETED | | | | | | | | |
| | DELETED | | | | | | | | |
| A 6A | DELETED | | | | | | | | |
| A 6W | DELETED | | | | | | | | |
| A 7 3 | | 280 | 250 | 10 11 5 | | 280 | 250 | A 14 7A | |
| | | | | A 9 | | | | | |
| A 7A 19 | SHLD A7 | 22N | | | E2 | 37N | | | |
| A 7L | P1-S* | 22N | 23 | | P2-S* | 22N | 24 | | |
| A 7R | P1-R* | 22N | 23 | | P2-R* | 22N | 24 | | |
| A 8 3 | | 280 | 250 | 10 11 5 | | 280 | 250 | A 14 7A | |
| | | | | A 9 | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR R D SHEET 9 OF 18

GIF CABLE W51 R D 1900978

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|--------------------|----------------------|---------------|----------|----------------------|-------------------|----------|----------|--|
| INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | ITEM NO. | |
| A 15 4 | | 430 | 400 | 12 13 5 | | 430 | 400 | A 20 7A | |
| | | | | A 14 | | | | | |
| A 15A 19 | SHLD A15 | 22N | | | E4 | 37N | | | |
| A 15W | P1-A | 22N | 23 | | P2-A | 22N | 24 | | |
| A 16 4 | | 430 | 400 | 12 13 5 | | 430 | 400 | A 20 7A | |
| | | | | A 14 | | | | | |
| A 16A 19 | SHLD A16 | 22N | | | E4 | 37N | | | |
| A 16W | P1-C | 22N | 23 | | P2-C | 22N | 24 | | |
| A 17 4 | | 480 | 450 | 12 13 5 | | 480 | 450 | A 20 7A | |
| | | | | A 14 | | | | | |
| A 17A 19 | SHLD A17 | 22N | | | E4 | 37N | | | |
| A 17W | P1-D | 22N | 23 | | P2-D | 22N | 24 | | |
| A 18 4 | | 480 | 450 | 12 13 5 | | 480 | 450 | A 20 7A | |
| | | | | A 14 | | | | | |
| A 18A 19 | SHLD A18 | 22N | | | E4 | 37N | | | |
| A 18W | P1-E | 22N | 23 | | P2-E | 22N | 24 | | |
| A 19 4 | | 480 | 450 | 12 13 5 | | 480 | 450 | A 20 7A | |
| | | | | A 14 | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR R D SHEET 12 OF 18

| GIF | | CABLE W51 | | | | | | | | | | E D 1900978 | |
|---|----------|----------------------|---------------|-------------------|---------|-----|----------------------|---------------|-------------------|------|-----|---|--|
| CONDUCTOR | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | | |
| A 23A | 19 | SHLD A23 | 22N | | | | E5 | 37N | | | | | |
| A 23L | | P1-P | 22N | 23 | | | P2-P | 22N | 24 | | | | |
| A 23R | | P1-N | 22N | 23 | | | P2-N | 22N | 24 | | | | |
| A 24 | 6 | P1-R | 22N | 23 | | | P2-R | 22N | 24 | | | | |
| A 25 | 6 | P1-S | 22N | 23 | | | P2-S | 22N | 24 | | | | |
| A 26 | 5 | | 530 | 500 | 7 8 5 | | | 530 | 500 | A 14 | 7A | | |
| A 26A | 19 | SHLD A26 | 22N | | | | E5 | 37N | | | | | |
| A 26L | | P1-U | 22N | 23 | | | P2-U | 22N | 24 | | | | |
| A 26R | | P1-T | 22N | 23 | | | P2-T | 22N | 24 | | | | |
| A 26Y | | P1-V | 22N | 23 | | | P2-V | 22N | 24 | | | | |
| A 27 | 19 | P1-B | 22N | 23 | | | E1 | 22N | | | | | |
| A 28 | 19 | E1 | 22N | | | | E2 | 22N | | | | | |
| A 29 | 19 | E2 | 22N | | | | E3 | 22N | | | | | |
| A 30 | 19 | E3 | 22N | | | | E4 | 22N | | | | | |
| A 31 | 19 | E4 | 22N | | | | E5 | 22N | | | | | |
| A 32 | 27 | | 230 | 200 | 28 29 5 | | | | 28 29 5 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR E D SHEET 14 OF 18 | |

| GIF | | CABLE W51 | | | | | | | | | | E 1900978 | |
|---|----------|----------------------|---------------|-------------------|---------|-----|----------------------|---------------|-------------------|---------|-----|---|--|
| CONDUCTOR | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | | |
| A 32A | 19 | SHLD A32 | 37N | | | | P1-J* | 22N | 23 | | | | |
| A 32E | | P1-I* | | 23 | | | P2-I* | | 24 | | | | |
| A 32X | 19 | P2-J* | 22N | 24 | | | SHLD A32 | 37N | | | | | |
| A 33 | 27 | | 230 | 200 | 28 29 5 | | | 230 | 200 | 28 29 5 | | | |
| A 33A | 19 | SHLD A33 | 37N | | | | P1-F* | 22N | 23 | | | | |
| A 33E | | P1-E* | 22N | 23 | | | P2-E* | 22N | 24 | | | | |
| A 33X | 19 | P2-F* | 22N | 24 | | | SHLD A33 | 37N | | | | | |
| A 34 | 27 | | 280 | 250 | 28 29 5 | | | 56 | | A 14 | | | |
| A 34A | 19 | SHLD A34 | 37N | | | | P2-P* | 22N | | | | | |
| A 34E | | P2-N* | 22N | | | | P3-J | 18 | 30 | | | | |
| A 34X | | SHLD A34 | | | | | P3-J SHLD | N | 25 31 32 | | | | |
| A 35 | 27 | | 330 | 300 | 7 8 5 | | | | | | | | |
| A 35A | 19 | SHLD A35 | 37N | | | | E6 | 37N | | | | | |
| A 35L | | P2-W* | 22N | 24 | | | P3-F | 22N | 33 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR E SHEET 15 OF 18 | |

| GIF | | CABLE W51 | | | | | | | | | | E D 1900978 | |
|---|----------|----------------------|---------------|-------------------|---------|-----|----------------------|---------------|-------------------|------|-----|---|--|
| CONDUCTOR | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | | |
| A 19A | 19 | SHLD A19 | 22N | | | | E4 | 37N | | | | | |
| A 19M | | P1-F | 22N | 23 | | | P2-F | 22N | 24 | | | | |
| A 20 | 3 | | 480 | 450 | 10 11 5 | | | 480 | 450 | A 14 | 7A | | |
| A 20A | 19 | SHLD A20 | 22N | | | | E5 | 37N | | | | | |
| A 20L | | P1-H | 22N | 23 | | | P2-H | 22N | 24 | | | | |
| A 20R | | P1-G | 22N | 23 | | | P2-G | 22N | 24 | | | | |
| A 21 | 3 | | 530 | 500 | 10 11 5 | | | 530 | 500 | A 14 | 7A | | |
| A 21A | 19 | SHLD A21 | 22N | | | | E5 | 37N | | | | | |
| A 21L | | P1-K | 22N | 23 | | | P2-K | 22N | 24 | | | | |
| A 21R | | P1-J | 22N | 23 | | | P2-J | 22N | 24 | | | | |
| A 22 | 3 | | 530 | 500 | 10 11 5 | | | 530 | 500 | A 14 | 7A | | |
| A 22A | 19 | SHLD A22 | 22N | | | | E5 | 37N | | | | | |
| A 22L | | P1-M | 22N | 23 | | | P2-M | 22N | 24 | | | | |
| A 22R | | P1-L | 22N | 23 | | | P2-L | 22N | 24 | | | | |
| A 23 | 3 | | 530 | 500 | 10 11 5 | | | 530 | 500 | A 14 | 7A | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR E D SHEET 13 OF 18 | |

| GIF | | CABLE W51 | | | | | | | | | | E 1900978 | |
|---|----------|----------------------|---------------|-------------------|---------|-----|----------------------|---------------|-------------------|------|-----|---|--|
| CONDUCTOR | | FROM | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | | |
| A 35R | | P2-V* | 22N | 24 | | | P3-E | 22N | 33 | | | | |
| A 35Y | | P2-X* | 22N | 24 | | | E6 | 37N | | | | | |
| A 36 | 19 | E6 | 37N | | | | P3-B | 22N | 33 | | | | |
| A 37 | 19 | P2-Q* | 22N | 24 | | | P3-M | 22N | 33 | | | | |
| A 38 | 27 | | 330 | 300 | 28 29 5 | | | 56 | | A 14 | | | |
| A 38A | 19 | SHLD A38 | 37N | | | | P2-Z* | 22N | 24 | | | | |
| A 38E | | P2-Y* | 22N | 24 | | | P3-D | 18 | 30 | | | | |
| A 38X | | SHLD A38 | 37N | | | | P3-D SHLD | N | 25 31 32 | | | | |
| A 39 | 19 | P2-CC | 22N | 24 | 5 | | P4-H | 22N | 33 | | | | |
| A 40 | 27 | | 330 | 300 | 28 29 | | | 56 | | A 14 | | | |
| A 40A | 19 | SHLD A40 | 37N | | | | P2-BB | 22N | 24 | | | | |
| A 40E | | P2-AA | 22N | 24 | | | P4-M | 18 | 30 | | | | |
| A 40X | | SHLD A40 | | | | | P4-M SHLD | N | 25 31 32 | | | | |
| A 41 | 5 | | 380 | 350 | 7 8 5 | | | 380 | 350 | A 14 | 7A | | |
| A 41A | 19 | SHLD A41 | 37N | | | | E7 | 37N | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR E SHEET 16 OF 18 | |

1900978

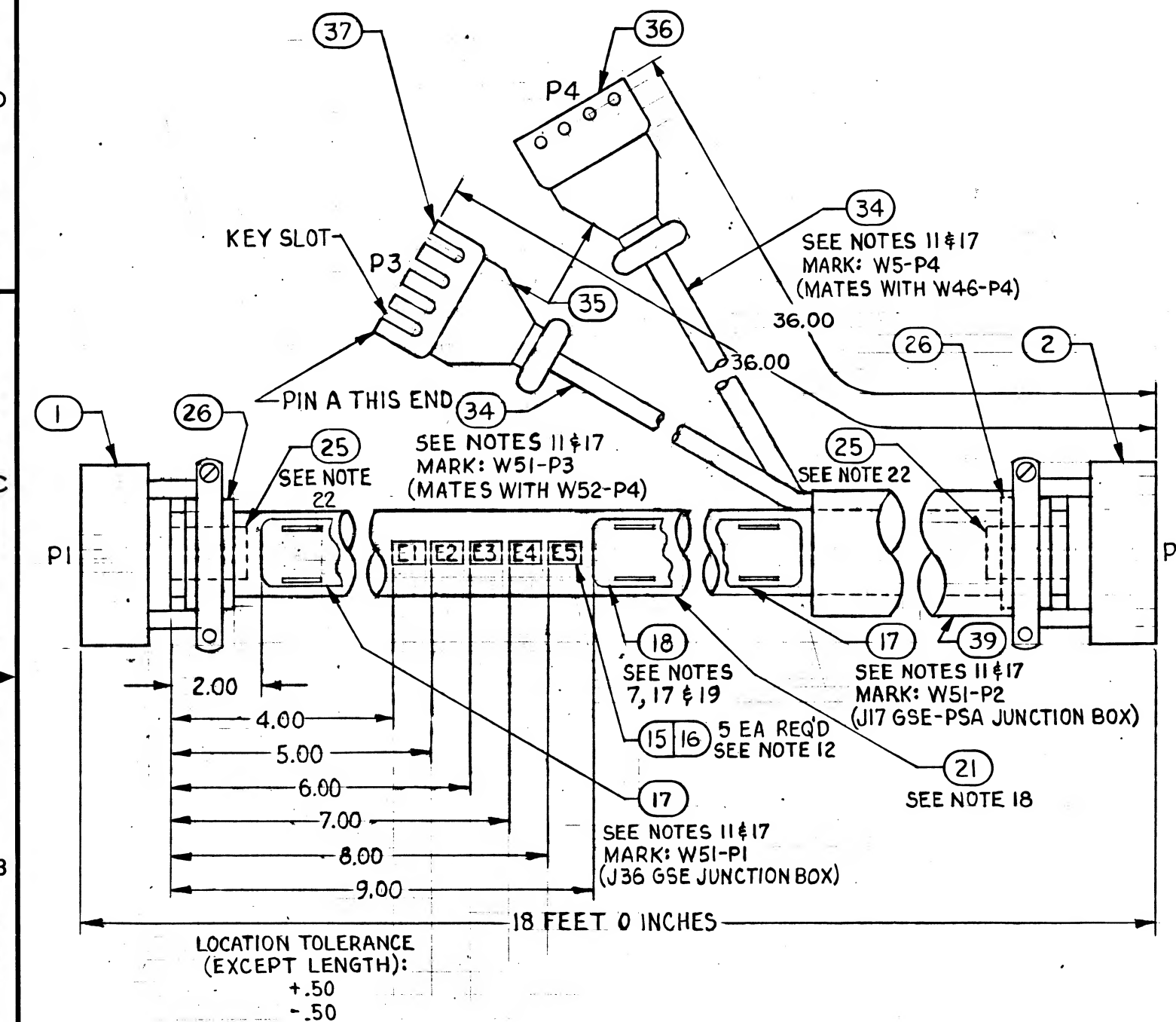
MIL 2085 - 4.65 WIR

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D 1900978 3

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| REVISIONS | | | | |
|-----------|------|--|----------|-------|
| SYM | ZONE | DESCRIPTION | DATE | APPD. |
| D | | CHANGE IN ACCORDANCE WITH CM 303155 REVISED PER TDRR 15408 | 8 OCT 64 | JWP |
| | | | | |
| | | | | |

| | | | | | | | |
|-------------|--|---|----------|---|------------------------------------|---|-----------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS | DECIMALS | ANGLES | ACSP PN | | |
| | | + | + | + | R.G. OLSON | 4 NOV 63 | |
| | | - | - | - | E.L. HINTZ | 12 NOV 63 | |
| | | | | | CHECKED | R.B. LIGON | 13 NOV 63 |
| | | | | | APPROVAL | | |
| | | DO NOT SCALE THIS DRAWING | | | APPROVAL <i>[Signature]</i> 1-5-65 | | |
| | | MATERIAL | | | NASA APPROVAL <i>[Signature]</i> | | |
| NEXT ASSY | | USED ON | | | MIT APPROVAL <i>[Signature]</i> | | |
| APPLICATION | | CONTRACT | | | NAS 9-497 | | |
| | | CODE IDENT NO. | | SIZE | 1900978 | | |
| | | SCALE | | NONE | SHEET 18 OF 18 | | |

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| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 19 | 1 | 1900978-005 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG WHT 30 FT., TOTAL LENGTH. |
| 10 | 20 | 7 | 1010490-200 | INSULATION SLEEVING ELEC |
| | 21 | 1 | 1900978-006 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC FLEXIBLE, 7/8 INCH DIA 18 FT. TOTAL LENGTH |
| | 22 | AR | MIL-T-713 | TAPE, LACING TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE - NONE | REV LTR + | SHEET 6 OF 14 |

| CONDUCTOR | | INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | FROM | | TERMINATION | | TO | | CUT WIRE OR SHIELD | | TERMINATION | |
|-----------|----------|-------------------|---|--------------------|-----|------|-----|-------------|----|----|---|--------------------|-----|-------------|---|
| NUMBER | ITEM NO. | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| A 1 | 3 | | | | | 230 | 200 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 1A | 19 | | | SHLD A1 | 22N | | | | | | | E1 | 37N | | |
| A 1L | | | | P1-F* | 22N | | | | | | | P2-F* | 22N | | |
| A 1R | | | | P1-E* | 22N | | | | | | | P2-E* | 22N | | |
| A 2 | 3 | | | | | 230 | 200 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 2A | 19 | | | SHLD A2 | 22N | | | | | | | E1 | 37N | | |
| A 2L | | | | P1-H* | 22N | | | | | | | P2-H* | 22N | | |
| A 2R | | | | P1-G* | 22N | | | | | | | P2-G* | 22N | | |
| A 3 | 3 | | | | | 230 | 200 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 3A | 19 | | | SHLD A3 | 22N | | | | | | | E1 | 37N | | |
| A 3L | | | | P1-J* | 22N | | | | | | | P2-J* | 22N | | |
| A 3R | | | | P1-I* | 22N | | | | | | | P2-I* | 22N | | |
| A 4 | 3 | | | | | 230 | 200 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 4A | 19 | | | SHLD A4 | 22N | | | | | | | E1 | 37N | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE - NONE | REV LTR + | SHEET 7 OF 14 |

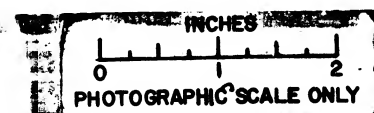
| LIST OF MATERIAL | | | | |
|------------------|------|-------|-----------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 16 | 1 | 1 | MS3126F-24-61PW | (1897047-611) CONNECTOR-PLUG |
| 16 | 2 | 1 | MS3126F-24-61SW | (1897048-611) CONNECTOR-PLUG |
| | 3 | 1 | 1900978-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JACKET, 20 AWG WHT/BLU, WHT/RED 252 FT TOTAL LENGTH |
| | 4 | 1 | 1900978-002 | WIRE ND 1002181 TYPE 1, CLASS 4 WHT JACKET, 20 AWG WHT 126 FT TOTAL LENGTH |
| | 5 | 1 | 1900978-003 | WIRE ND 1002181 TYPE 3, CLASS 4, WHT JACKET, 20 AWG WHT/BLU, WHT/RED, WHT/YEL 54 FT, TOTAL LENGTH. |
| | 6 | 1 | 1900978-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 20 AWG WHT TOTAL LENGTH 36 FT |
| 10 | 7 | 3 | 1000243-015 | FERRULE, ELEC COND |
| 10 | 8 | 3 | 1000242-016 | FERRULE, ELEC COND |
| 10 | 9 | 17 | 1010490-194 | INSULATION, SLEEVING ELEC |
| 10 | 10 | 14 | 1000243-014 | FERRULE, ELEC COND |
| 10 | 11 | 14 | 1000242-012 | FERRULE, ELEC COND |
| 10 | 12 | 7 | 1000243-004 | FERRULE, ELEC COND |
| 10 | 13 | 7 | 1000242-004 | FERRULE, ELEC COND |
| 10 | 14 | 25 | 1010490-196 | INSULATION, SLEEVING ELEC |
| 10 | 15 | 5 | 1016006-002 | SPLICE REDUCER |
| 10 | 16 | 5 | 1010490-258 | INSULATION SLEEVING |
| 10 | 17 | 2 | 1016128-041 | BAND IDENTIFICATION |
| 10 | 18 | 1 | 1016128-011 | BAND IDENTIFICATION |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE - NONE | REV LTR + | SHEET 5 OF 14 |

| CONDUCTOR | | INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | FROM | | TERMINATION | | TO | | CUT WIRE OR SHIELD | | TERMINATION | |
|-----------|----------|-------------------|---|--------------------|-----|------|-----|-------------|----|----|---|--------------------|-----|-------------|---|
| NUMBER | ITEM NO. | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| A 4L | | | | P1-M* | 22N | | | | | | | P2-M* | 37N | | |
| A 4R | | | | P1-K* | 22N | | | | | | | P2-K* | 37N | | |
| A 5 | 3 | | | | | 280 | 250 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 5A | 19 | | | SHLD A5 | 22N | | | | | | | E1 | 37N | | |
| A 5L | | | | P1-P* | 22N | | | | | | | P2-M* | 22N | | |
| A 5R | | | | P1-N* | 22N | | | | | | | P2-N* | 22N | | |
| A 6 | 4 | | | | | 280 | 250 | 12 | 13 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 6A | 19 | | | SHLD A6 | 22N | | | | | | | E1 | 37N | | |
| A 6W | | | | P1-Q* | 22N | | | | | | | P2-Q* | 22N | | |
| A 7 | 3 | | | | | 280 | 250 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |
| A 7A | 19 | | | SHLD A7 | 22N | | | | | | | E2 | 37N | | |
| A 7L | | | | P1-S* | 22N | | | | | | | P2-S* | 22N | | |
| A 7R | | | | P1-R* | 22N | | | | | | | P2-R* | 22N | | |
| A 8 | 3 | | | | | 280 | 250 | 10 | 11 | 5 | | | | | |
| | | | | | | | | | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 |
| SCALE - NONE | REV LTR + | SHEET 8 OF 14 |



GIF

CABLE W51

1900978

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|---|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 11R | | P1-AA | 22N | | | P2-AA | 37N | | |
| A 12 | 4 | | 380 350 12 13 | 5 | | | 380 350 A 20 | 7A | |
| | | | | A 14 | | | | | |
| A 12A 19 | | SHLD A12 | 22N | | | E3 | 37N | | |
| A 12W | | P1-CC | 22N | | | P2-CC | 22N | | |
| A 13 | 5 | | 380 350 7 8 | 5 | | | 380 350 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 13A 19 | | SHLD A13 | 22N | | | E3 | 37N | | |
| A 13L | | P1-EE | 22N | | | P2-EE | 22N | | |
| A 13R | | P1-DD | 22N | | | P2-DD | 22N | | |
| A 13Y | | P1-FF | 22N | | | P2-FF | 22N | | |
| A 14 | 3 | | 430 400 10 11 | 5 | | | 430 400 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 14A 19 | | SHLD A14 | 22 | | | E4 | 37N | | |
| A 14L | | P1-HH | 22N | | | P2-HH | 22N | | |
| A 14R | | P1-GG | 22N | | | P2-GG | 22N | | |
| A 15 | 4 | | 430 400 12 13 | 5 | | | 430 400 A 20 | 7A | |
| | | | | A 14 | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 10 OF 14 | |

MIL 2089 - 4.83 WIR

GIF

CABLE W51

1900978

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|---|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 15A 19 | | SHLD A15 | 22N | | | E4 | 37N | | |
| A 15W | | P1-A | 22N | | | P2-A | 22N | | |
| A 16 | 4 | | 430 400 12 13 | 5 | | | 430 400 A 20 | 7A | |
| | | | | A 14 | | | | | |
| A 16A 19 | | SHLD A16 | 22N | | | E4 | 37N | | |
| A 16W | | P1-C | 22N | | | P2-C | 22N | | |
| A 17 | 4 | | 480 450 12 13 | 5 | | | 480 450 A 20 | 7A | |
| | | | | A 14 | | | | | |
| A 17A 19 | | SHLD A17 | 22N | | | E4 | 37N | | |
| A 17W | | P1-D | 22N | | | P2-D | 22N | | |
| A 18 | 4 | | 480 450 12 13 | 5 | | | 480 450 A 20 | 7A | |
| | | | | A 14 | | | | | |
| A 18A 19 | | SHLD A18 | 22N | | | E4 | 37N | | |
| A 18W | | P1-E | 22N | | | P2-E | 22N | | |
| A 19 | 4 | | 480 450 12 13 | 5 | | | 480 450 A 20 | 7A | |
| | | | | A 14 | | | | | |
| A 19A 19 | | SHLD A19 | 22N | | | E4 | 37N | | |
| A 19W | | P1-F | 22N | | | P2-F | 22N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 11 OF 14 | |

MIL 2089 - 4.83 WIR

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CABLE W51

1900978

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|---|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 8A 19 | | SHLD A8 | 22N | | | E2 | 37N | | |
| A 8L | | P1-U* | 22N | | | P2-U* | 22N | | |
| A 8R | | P1-T* | 22N | | | P2-T* | 22N | | |
| A 9 | 5 | | 330 300 7 8 | 5 | | | 330 300 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 9A 19 | | SHLD A9 | 22N | | | E2 | 37N | | |
| A 9L | | P1-W* | 22N | | | P2-W* | 22N | | |
| A 9R | | P1-V* | 22N | | | P2-V* | 22N | | |
| A 9Y | | P1-X* | 22N | | | P2-X* | 22N | | |
| A 10 | 3 | | 330 300 10 11 | 5 | | | 330 300 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 10A 19 | | SHLD A10 | 22N | | | E3 | 37N | | |
| A 10L | | P1-Z* | 22N | | | P2-Z* | 22N | | |
| A 10R | | P1-Y* | 22N | | | P2-Y* | 22N | | |
| A 11 | 3 | | 380 350 10 11 | | | | 380 350 A 11 | 7A | |
| | | | | A 9 | | | | | |
| A 11A 19 | | SHLD A11 | 22N | | | E3 | 37N | | |
| A 11L | | P1-BB | 22N | | | P2-BB | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 9 OF 14 | |

MIL 2089 - 4.83 WIR

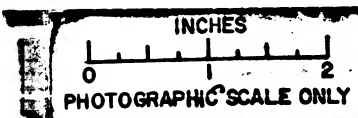
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CABLE W51

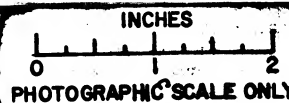
1900978

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
|---|---|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 20 | 3 | | 480 450 10 11 | 5 | | | 480 450 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 20A 19 | | SHLD A20 | 22N | | | E5 | 37N | | |
| A 20L | | P1-H | 22N | | | P2-H | 22N | | |
| A 20R | | P1-G | 22N | | | P2-G | 22N | | |
| A 21 | 3 | | 530 500 10 11 | 5 | | | 530 500 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 21A 19 | | SHLD A21 | 22N | | | E5 | 37N | | |
| A 21L | | P1-K | 22N | | | P2-K | 22N | | |
| A 21R | | P1-J | 22N | | | P2-J | 22N | | |
| A 22 | 3 | | 530 500 10 11 | 5 | | | 530 500 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 22A 19 | | SHLD A22 | 22N | | | E5 | 37N | | |
| A 22L | | P1-M | 22N | | | P2-M | 22N | | |
| A 22R | | P1-L | 22N | | | P2-L | 22N | | |
| A 23 | 3 | | 530 500 10 11 | 5 | | | 530 500 A 14 | 7A | |
| | | | | A 9 | | | | | |
| A 23A 19 | | SHLD A23 | 22N | | | E5 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900978 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 12 OF 14 | |

MIL 2089 - 4.83 WIR



1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.



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| 61K | | CABLE W52 | | C | | 1900979 | |
| PERMANENT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 2 | 1900979-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT. JAKT. 22AWG. WHT/BLU. WHT/RED. 208 FT. TOTAL LENGTH | | | |
| | 2 | 1 | 1900979-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT. JAKT. 22AWG. WHT. 32 FT. TOTAL LENGTH | | | |
| | 3 | 1 | 1900979-003 | WIRE ND1002181 TYPE 3, CLASS 4, WHT. JAKT. 22AWG. WHT/BLU. WHT/RED. WHT/YEL. 48 FT. TOTAL LENGTH | | | |
| | 4 | 1 | 1900979-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT. 36 FT. TOTAL LENGTH | | | |
| 16 | 5 | 1 | MS3126F-24-61PY (1897047-613) | CONNECTOR PLUG | | | |
| 22 | 6 | 1 | 1010411-002 | CONNECTOR PLUG | | | |
| 10 | 7 | 13 | 1000243-008 | FERRULE ELECT. COND. | | | |
| 10 | 8 | 13 | 1000242-007 | FERRULE ELECT. COND. | | | |
| 10 | 9 | 3 | 1000243-011 | FERRULE ELECT. COND. | | | |
| 10 | 10 | 3 | 1000242-011 | FERRULE ELECT. COND. | | | |
| 10 | 11 | 2 | 1000243-003 | FERRULE ELECT. COND. | | | |
| 10 | 12 | 2 | 1000242-002 | FERRULE ELECT. COND. | | | |
| 10 | 13 | 16 | 1010490-194 | INSULATION SLEEVING ELECT. | | | |
| 10 | 14 | 16 | 1010490-196 | INSULATION SLEEVING ELECT. | | | |
| 10 | 15 | 3 | 1010490-298 | INSULATION SLEEVING ELECT. | | | |
| 10 | 16 | 2 | 1010490-198 | INSULATION SLEEVING ELECT. | | | |
| | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900979 |
| | | | | SCALE: NONE | | REV LTR C | SHEET 5 OF 13 |

| | | | |
|--|-----------|---------------|---|
| 61K | CABLE W52 | C | 1900979 |
| LIST OF MATERIALS | | | |
| PENNANT | NOTE | ITEM QTY | PART NO DESCRIPTION |
| | 10 | 17 2 | 1010490-200 INSULATION SLEEVING ELECT. |
| | 10 | 18 3 | 1016006-002 SPLICE REDUCER |
| | 10 | 19 1 | 1016128-011 BAND IDENTIFICATION |
| | 10 | 20 2 | 1016128-041 BAND IDENTIFICATION |
| | | 21 1 | 1900979-005 ZIPPER TUBING, ND1002199, TYPE 1, PLASTIC, FLEXIBLE, 1 IN. DIA. 16 FT. TOTAL LENGTH |
| | | 22 AR | MIL-T-713 LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| | 10 | 23 108 | 1010484-002 CONTACT SOCKET |
| | 20 | 24 | CONTACT PINS |
| | 21 | 25 AR | 1897147-104, 106, 108, 112, 116, CABLE CLAMP SLEEVE |
| | 10 | 26 1 | 1016282-024 RUBBER GROMMET |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| SCALE: NONE | | SIZE A | 1900979 |
| REV LTR C | | SHEET 6 OF 13 | |

| G1K | | CABLE W52 | | | | C | | 1900979 | | | | | |
|-------------------|----------|---------------------|---------------|-------------|-------|--------------------|---------------------|---------------|----------|-----|---|----|----|
| CONDUCTOR | | FROM | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | | | |
| A | 1 | 1 | | 230 | 200 | 7 | 8 | 5 | 230 | 200 | A | 14 | 7A |
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G1K

CABLE W52

C

1900979

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|---------------|-------------|-------|---------------------|---------------|-------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | SPEC. |
| A 4M | | P1-F* | 19M | 24 | | P2-34 | 10M | 23 | |
| A 5 | 1 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | A 13 | | | | | |
| A 5A | 4 | SHLD A5 | 25M | | | E1 | 25M | | |
| A 5L | | P1-H* | 19M | 24 | | P2-45 | 10M | 23 | |
| A 5R | | P1-G* | 19M | 24 | | P2-35 | 10M | 23 | |
| A 6 | 1 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | A 13 | | | | | |
| A 6A | 4 | SHLD A6 | 25M | | | E1 | 25M | | |
| A 6L | | P1-J* | 19M | 24 | | P2-20 | 10M | 23 | |
| A 6R | | P1-I* | 19M | 24 | | P2-6 | 10M | 23 | |
| A 7 | 1 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | A 13 | | | | | |
| A 7A | 4 | SHLD A7 | 25M | | | E2 | 25M | | |
| A 7L | | P1-M* | 19M | 24 | | P2-21 | 10M | 23 | |
| A 7R | | P1-K* | 19M | 24 | | P2-7 | 10M | 23 | |
| A 8 | 1 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | A 13 | | | | | |

→ THE STD CONDUCTOR TERMINATION FIGURES ARE PER
 → DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

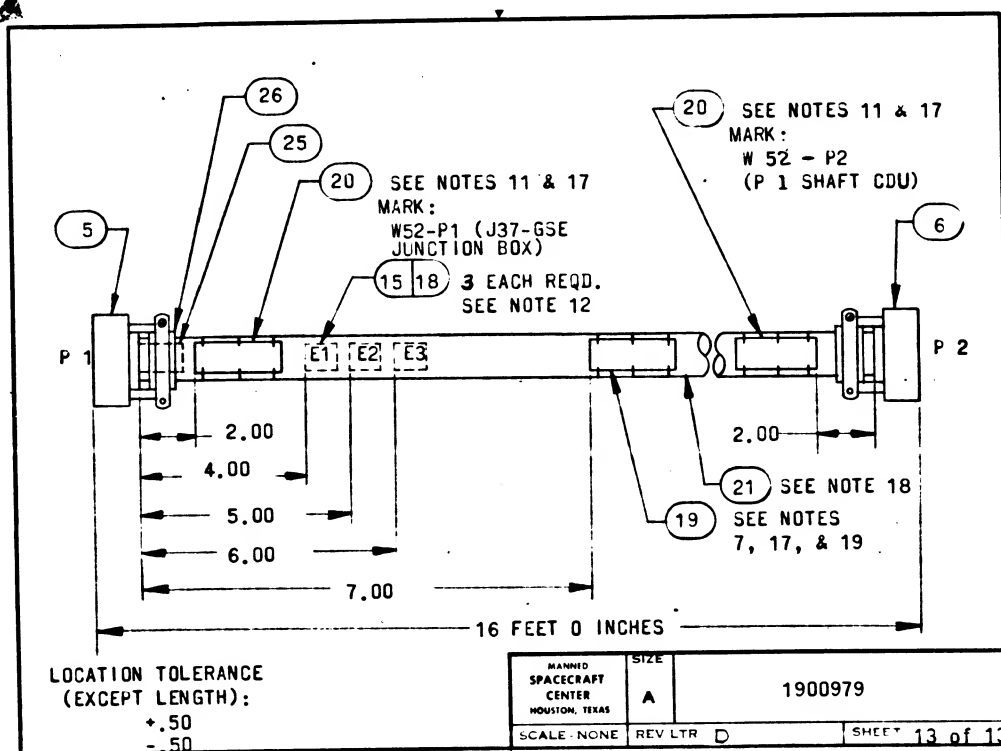
1900979

SCALE: NONE

REV LTR

C

SHEET 8 OF 13



G1K CABLE W52 C 1900979

PENNANT GENERAL NOTES

NOTE

1 SEE CONDUCTOR CHART, PENNANT NOTE 1.

2 SEE CONDUCTOR CHART, PENNANT NOTE 2.

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.

6 SPIRALLING OF THE MARKING IS ALLOWED.

7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE.

8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

9 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

12 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR Y IN THE ACCESSORIES ITEM NUMBER FIELD.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900979

SCALE-NONE REV LTR C SHEET 2 OF 13

G1K CABLE W52 C 1900979

PENNANT GENERAL NOTES

NOTE

14 A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
Y - WHITE WITH YELLOW TRACER
W - WHITE

16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.

17 SECURE TO CABLE USING ITEM 22. MARKING TO READ AWAY FROM CONNECTOR.

18 SEAL ZIPPER TUBING PER ND1002153.

19 SERIALIZE PER ND1002023.

20 ITEM 24 FURNISHED WITH ITEM 5.

21 ITEM 25 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 25 AS REQUIRED TO FIT.

22 SEE NOTES 10 AND 16.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900979

SCALE-NONE REV LTR C SHEET 3 OF 13

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1/7/64

APPLICATION USED ON 190005-011

REVISIONS

| SYM | DESCRIPTION | DATE | APPROVAL |
|-----|--|-----------|----------|
| A | CHANGE IN ACCORDANCE WITH CM 193624 TDR 1/1/64 | 5-FEB-64 | 11/1/64 |
| B | CHANGE IN ACCORDANCE WITH CM 195602 TDR 1/1/64 | 11-MAR-64 | 11/1/64 |
| C | CHANGE IN ACCORDANCE WITH CM 195784 TDR 1/1/64 | 7-APR-64 | 11/1/64 |
| D | CHANGE IN ACCORDANCE WITH CM 196903 TDR 1/1/64 | 13-MAY-64 | 11/1/64 |
| E | CHANGE IN ACCORDANCE WITH CM 197534 TDR 1/1/64 | 28-MAY-64 | 11/1/64 |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

SPACECRAFT CENTER HOUSTON, TEXAS

CABLE INTERCONNECT W52 1SS, OSS, TESTING

REV E

CODE IDENT NO. A 1900979

SCALE -

SHEET 1 OF 13

CONTRACT NAS 9-497

G1K CABLE W52 A 1900979

PENNANT GENERAL NOTES

NOTE

22 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.

| | WIRE OR CABLE | WIRE STRIP | JACKET WIRE | CUT SHIELD |
|--------------------|---------------|------------|-------------|------------|
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900979

SCALE-NONE REV LTR A SHEET 4 OF 13

| G1K | | CABLE W52 | | C | | 1900979 | |
|---------|------|-------------------|---|--|---------|---------------|--|
| PENMANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900979-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT. JAKT, 22AWG, WHT/BLU, WHT/RED, 208 FT. TOTAL LENGTH | | | |
| | 2 | 1 | 1900979-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT. JAKT, 22AWG, WHT., 32 FT. TOTAL LENGTH | | | |
| | 3 | 1 | 1900979-003 | WIRE ND1002181 TYPE 3, CLASS 4, WHT. JAKT, 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 48 FT. TOTAL LENGTH | | | |
| | 4 | 1 | 1900979-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT., 36 FT. TOTAL LENGTH | | | |
| 16 | 5 | 1 | MS3126F-24-61PY (1897047-613) | CONNECTOR PLUG | | | |
| 22 | 6 | 1 | 1010411-002 | CONNECTOR PLUG | | | |
| 10 | 7 | 13 | 1000243-008 | FERRULE ELECT. COND. | | | |
| 10 | 8 | 13 | 1000242-007 | FERRULE ELECT. COND. | | | |
| 10 | 9 | 3 | 1000243-011 | FERRULE ELECT. COND. | | | |
| 10 | 10 | 3 | 1000242-011 | FERRULE ELECT. COND. | | | |
| 10 | 11 | 2 | 1000243-003 | FERRULE ELECT. COND. | | | |
| 10 | 12 | 2 | 1000242-002 | FERRULE ELECT. COND. | | | |
| 10 | 13 | 16 | 1010490-194 | INSULATION SLEEVING ELECT. | | | |
| 10 | 14 | 16 | 1010490-196 | INSULATION SLEEVING ELECT. | | | |
| 10 | 15 | 3 | 1010490-258 | INSULATION SLEEVING ELECT. | | | |
| 10 | 16 | 2 | 1010490-198 | INSULATION SLEEVING ELECT. | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 | | |
| | | | SCALE-NONE | REV LTR | C | SHEET 5 OF 13 | |

| G1K | | CABLE W52 | | E | | 1900979 | |
|---------|------|-------------------|-------------|--|--|---------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 10 | 17 | 2 | 1010490-200 | INSULATION SLEEVING ELECT. | | | |
| 10 | 18 | 3 | 1016006-002 | SPlice REDUCER | | | |
| 10 | 19 | 1 | 1016128-011 | BAND IDENTIFICATION | | | |
| 10 | 20 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| | 21 | 1 | 1900979-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1 IN. DIA. 16 FT. TOTAL LENGTH | | | |
| | 22 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 23 | 108 | 1010464-002 | CONTACT SOCKET | | | |
| 20 | 24 | | | CONTACT PINS | | | |
| 21 | 25 | AR | | 1897147-104, 106, 108, 112, 116, CABLE CLAMP SLEEVE | | | |
| 10 | 26 | 1 | 1016282-024 | RUBBER GROMMET | | | |
| 10 | 27 | 1 | 1015902-46 | TERMINAL LUG | | | |
| | 28 | 1 | 1900979-006 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | |

| | | | |
|--|---------|---------------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900979 |
| SCALE-NONE | REV LTR | E | SHEET 6 OF 13 |

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | |
|---|----------|------|----------------------|---------|---|-----|-------------------|----|----------------------|-----|--|--------|---|-------------------|-----|----|-----|----|--|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | | | | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | 2 | T | 1 | ITEM NO. | 1 | STRIP WIRE OR JACKET | | 2 | T | 1 | ITEM NO. | 1 | | | | | | | |
| A | 1 | 1 | | | | 230 | 200 | 7 | 8 | 5 | | | | 230 | 200 | A | 14 | 7A | | | | |
| | | | | | | | | | | A | 13 | | | | | | | | | | | |
| A | 1A | 4 | | SHLD A1 | | 25M | | | | | | E1 | | 25M | | | | | | | | |
| A | 1L | | | P1-Z | | 19M | | 24 | | | | P2- 14 | | 10M | | 23 | | | | | | |
| A | 1R | | | P1-Y | | 19M | | 24 | | | | P2- 1 | | 10M | | 23 | | | | | | |
| A | 2 | 1 | | | | 230 | 200 | 7 | 8 | 5 | | | | 230 | 200 | A | 14 | 7A | | | | |
| | | | | | | | | | | A | 13 | | | | | | | | | | | |
| A | 2A | 4 | | SHLD A2 | | 25M | | | | | | E1 | | 25M | | | | | | | | |
| A | 2L | | | P1-C* | | 19M | | 24 | | | | P2- 57 | | 10M | | 23 | | | | | | |
| A | 2R | | | P1-B* | | 19M | | 24 | | | | P2- 67 | | 10M | | 23 | | | | | | |
| A | 3 | 1 | | | | 230 | 200 | 7 | 8 | 5 | | | | 230 | 200 | A | 14 | 7A | | | | |
| | | | | | | | | | | A | 13 | | | | | | | | | | | |
| A | 3A | 4 | | SHLD A3 | | 25M | | | | | | E1 | | 25M | | | | | | | | |
| A | 3L | | | P1-E* | | 19M | | 24 | | | | P2- 56 | | 10M | | 23 | | | | | | |
| A | 3R | | | P1-D* | | 19M | | 24 | | | | P2- 66 | | 10M | | 23 | | | | | | |
| A | 4 | 2 | | | | 230 | 200 | 11 | 12 | 5 | | | | 230 | 200 | A | 17 | 7A | | | | |
| | | | | | | | | | | A | 16 | | | | | | | | | | | |
| A | 4A | 4 | | SHLD A4 | | 25M | | | | | | E1 | | 25M | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | MANDED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A 1900979 SCALE - NONE REV LTR C SHEET 7 OF 13 | | | | | | | | | | | |

G1K

CABLE W52

C

1900979

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----------|----------------------|--|--|--|--|---------------|--|--|--|--|----------------------|--|--|--|--|-----------------|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| | | STRIP WIRE OR JACKET | | | | | SPEC. | | | | | STRIP WIRE OR JACKET | | | | | SPEC. | | | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| A 4M | | P1-F* | | | | | 19M 24 | | | | | P2- 34 | | | | | 10M 23 | | | | |
| A 5 | 1 | | | | | | 280 250 7 8 5 | | | | | | | | | | 280 250 A 14 7A | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 5A | 4 | SHLD A5 | | | | | 25M | | | | | E1 | | | | | 25M | | | | |
| A 5L | | P1-H* | | | | | 19M 24 | | | | | P2- 45 | | | | | 10M 23 | | | | |
| A 5R | | P1-G* | | | | | 19M 24 | | | | | P2- 35 | | | | | 10M 23 | | | | |
| A 6 | 1 | | | | | | 280 250 7 8 5 | | | | | | | | | | 280 250 A 14 7A | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 6A | 4 | SHLD A6 | | | | | 25M | | | | | E1 | | | | | 25M | | | | |
| A 6L | | P1-J* | | | | | 19M 24 | | | | | P2- 20 | | | | | 10M 23 | | | | |
| A 6R | | P1-I* | | | | | 19M 24 | | | | | P2- 6 | | | | | 10M 23 | | | | |
| A 7 | 1 | | | | | | 280 250 7 8 5 | | | | | | | | | | 280 250 A 14 7A | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 7A | 4 | SHLD A7 | | | | | 25M | | | | | E2 | | | | | 25M | | | | |
| A 7L | | P1-M* | | | | | 19M 24 | | | | | P2- 21 | | | | | 10M 23 | | | | |
| A 7R | | P1-K* | | | | | 19M 24 | | | | | P2- 7 | | | | | 10M 23 | | | | |
| A 8 | 1 | | | | | | 280 250 7 8 5 | | | | | | | | | | 280 250 A 14 7A | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | | | |

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

C

SHEET 8 OF 13

GIK

CABLE W52

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1900979

| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|-----|---|--|----------------------|-----|-----|---------|----------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| ITEM NO. 1 | | | | TERMINATION SPEC. 1 | | | | TERMINATION SPEC. 1 | | | |
| STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT 2 | | | | CIRCUIT POINT 2 | | | | CIRCUIT POINT 2 | | | |
| ITEM NO. | | | | ITEM NO. | | | | ITEM NO. | | | |
| A | 8A | 4 | | SHLD A8 | 25N | | | E2 | 25N | | |
| A | 8L | | | P1-P* | 19N | 24 | | P2- 90 | 10N | 23 | |
| A | 8R | | | P1-N* | 19N | 24 | | P2-104 | 10N | 23 | |
| A | 9 | 2 | | | 330 | 300 | 11 12 5 | | 330 | 300 | A 17 7A |
| | | | | | | | A 16 | | | | |
| A | 9A | 4 | | SHLD A9 | 25N | | | E2 | 25N | | |
| A | 9W | | | P1-Q* | 19N | 24 | | P2- 89 | 10N | 23 | |
| A | 10 | 1 | | | 330 | 300 | 7 8 5 | | 330 | 300 | A 14 7A |
| | | | | | | | A 13 | | | | |
| A | 10A | 4 | | SHLD A10 | 25N | | | E2 | 25N | | |
| A | 10L | | | P1-S* | 19N | 24 | | P2- .86 | 10N | 23 | |
| A | 10R | | | P1-R* | 19N | 24 | | P2-100 | 10N | 23 | |
| A | 11 | 1 | | | 330 | 300 | 7 8 5 | | 330 | 300 | A 14 7A |
| | | | | | | | A 13 | | | | |
| A | 11A | 4 | | SHLD A11 | 25N | | | E2 | 25N | | |
| A | 11L | | | P1-U* | 19N | 24 | | P2- 87 | 10N | 23 | |
| A | 11R | | | P1-T* | 19N | 24 | | P2-101 | 10N | 23 | |
| A | 12 | 3 | | | 330 | 300 | 9 10 5 | | 330 | 300 | A 14 7A |
| | | | | | | | | | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE- NONE

REV LTR C

SHEET 9 OF 13

GIK

CABLE W52

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1900979

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|--|---------------------|---------------|----------|---------------------|---------------|----------|---------------------|---------------|----------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | TERMINATION SPEC. | | |
| NUMBER | ITEM NO. | | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. |
| A 12A | 4 | | SHLD A12 | 25M | | P1-C | 19M | 24 | | | |
| A 12L | | | P1-W* | 19M | 24 | P2-108 | 10M | 23 | | | |
| A 12R | | | P1-V* | 19M | 24 | P2-107 | 10M | 23 | | | |
| A 12Y | | | P1-X* | 19M | 24 | P2- 94 | 10M | 23 | | | |
| A 13 | 1 | | | 380 | 350 | | | | | | |
| | | | | | | | | | | | |
| A 13A | 4 | | SHLD A13 | 25M | | E3 | 25M | | | | |
| A 13L | | | P1-Z* | 19M | 24 | P2- 60 | 10M | 23 | | | |
| A 13R | | | P1-Y* | 19M | 24 | P2- 50 | 10M | 23 | | | |
| A 14 | 1 | | | 380 | 350 | | | | | | |
| | | | | | | | | | | | |
| A 14A | 4 | | SHLD A14 | 25M | | E3 | 25M | | | | |
| A 14L | | | P1-CC | 19M | 24 | P2- 2 | 10M | 23 | | | |
| A 14R | | | P1-BB | 19M | 24 | P2- 3 | 10M | 23 | | | |
| A 15 | 1 | | | 380 | 350 | | | | | | |
| | | | | | | | | | | | |
| A 15A | 4 | | SHLD A15 | 25M | | E3 | 25M | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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|--|--------------------------|
| <p>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</p> | <p>SIZE A</p> |
| <p>SCALE - NONE REV LTR D</p> | |

1900979

SHEET 10 OF 13

GIK

CABLE W32

E

1900979

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|---|--|--|----------------------|-----|-----|------|----------------------|-----|-----|-----|------|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | | |
| ITEM NO. | | | | ITEM NO. | | | | ITEM NO. | | | | | |
| A 15L | | | | P1-FF | 19M | 24 | | P2- 2 | 10M | 23 | | | |
| A 15R | | | | P1-EE | 19M | 24 | | P2-106 | 10M | 23 | | | |
| A 16 | 3 | | | | 380 | 350 | 9 10 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | | | A 13 | | | | | | |
| A 16A | 4 | | | SHLD A16 | 25M | | | E3 | 25M | | | | |
| A 16L | | | | P1-MM | 19M | 24 | | P2- 31 | 10M | 23 | | | |
| A 16R | | | | P1-GG | 19M | 24 | | P2- 32 | 10M | 23 | | | |
| A 16Y | | | | P1-JJ | 19M | 24 | | P2- 43 | 10M | 23 | | | |
| A 17 | 1 | | | | 430 | 400 | 7 8 | 9 | | 430 | 400 | A 14 | 7A |
| | | | | | | | A 13 | | | | | | |
| A 17A | 4 | | | SHLD A17 | 25M | | | E3 | 25M | | | | |
| A 17L | | | | P1-LL | 19M | 24 | | P2- 29 | 10M | 23 | | | |
| A 17R | | | | P1-KK | 19M | 24 | | P2- 28 | 10M | 23 | | | |
| A 18 | 4 | | | P3- 1 | 25M | 27 | | P2- 41 | 10M | 23 | | | |
| A 19 | 3 | | | | 430 | 400 | 9 10 | 5 | | 430 | 400 | A 14 | 7A |
| | | | | | | | A 13 | | | | | | |
| A 19A | 4 | | | SHLD A19 | 25M | | | E3 | 25M | | | | |
| A 19L | | | | P1-MM | 19M | 24 | | P2- 11 | 10M | 23 | | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE- NONE REV LTR E SHEET 11 OF 13

GIK

CABLE W52

1900979

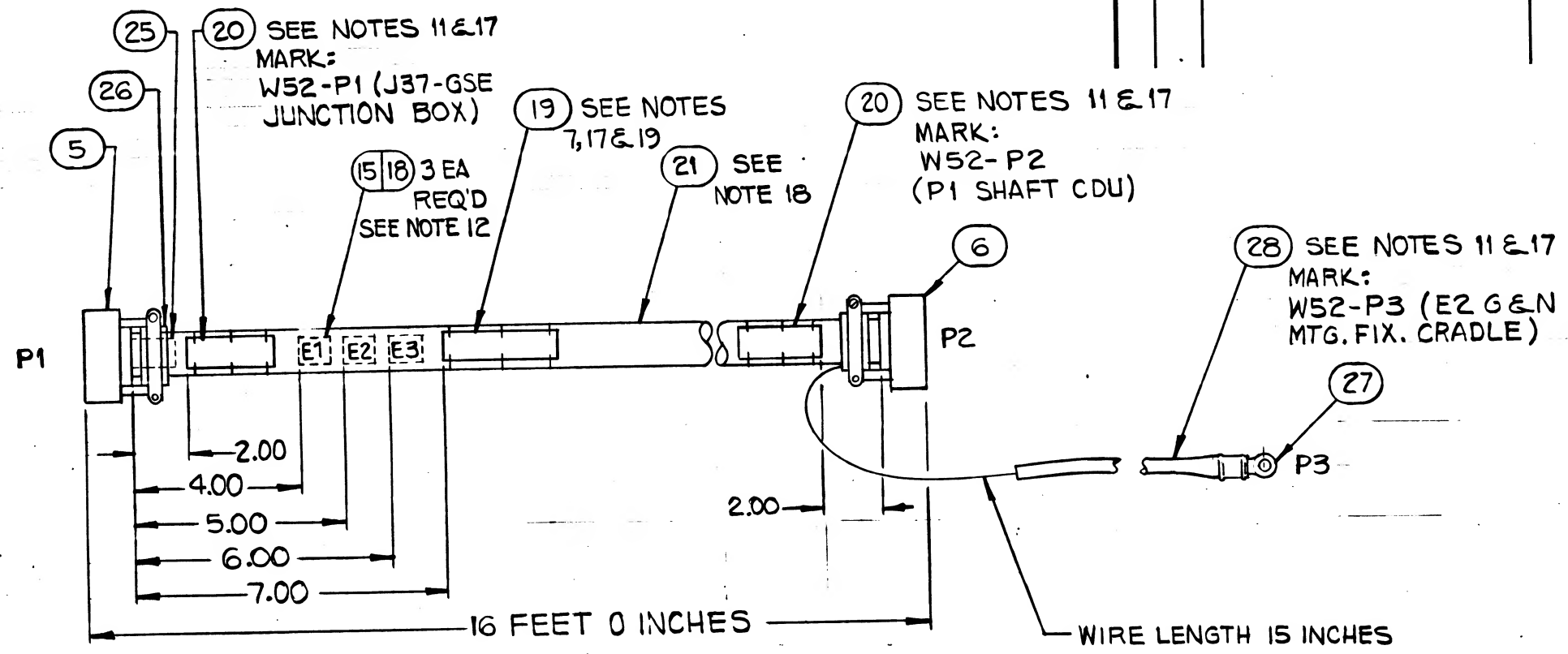
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| REVISIONS | | | | |
|-----------|------|---------------------------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| | | SEE SHEET 1 FOR REVISION RECORD | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
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LOCATION TOLERANCE
(EXCEPT LENGTH): ±.50

| | | | | | | | |
|-------------|--|---|--|---|--|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | DRAWN T. KOSMOTKA 7 NOV 63 | | CABLE INTERCONNECT W52 | |
| | | + + + | | DATE 12 NOV 63 | | ISS, OSS, TESTING | |
| | | | | CHECKED M. MANNING 12 NOV 63 | | | |
| | | | | APPROVAL R. B. LIGON 12 NOV 63 | | | |
| | | | | DO NOT SCALE THIS DRAWING | | | |
| | | | | MATERIAL | | CODE IDENT NO. SIZE | |
| | | | | NASA APPROVAL | | C 1900979 | |
| | | | | MIT APPROVAL | | SCALE NONE | |
| NEXT ASSY | | USED ON | | CONTRACT | | SHEET 13 OF 13 | |
| APPLICATION | | | | | | | |

| | | | |
|--|-------------|----------------------------------|--|
| APPLICATION | | REVISIONS | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION |
| 1901308 | 1901308-011 | A | CHANGE IN ACCORDANCE WITH CM 193624 7-64 |
| | | B | CHANGE IN ACCORDANCE WITH CM 195642 7-64 |
| | | C | CHANGE IN ACCORDANCE WITH CM 195784 7-64 |
| | | D | ADDED CUSTOMER DATA (V2-64) |
| | | E | CHANGE IN ACCORDANCE WITH CM 196903 7-64 |
| | | F | CHANGE IN ACCORDANCE WITH CM 199016 7-64 |
| FOR INFORMATION ONLY | | DATE 17/64 | |
| CLASS B RELEASE TDR No. 05663 | | DATE 17/64 | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | SPACECRAFT CENTER HOUSTON, TEXAS | |
| CABLE INTERCONNECT W52 | | 1SS, OSS, TESTING | |
| CODE IDENT NO. | | SIZE | |
| 1900979 | | A | |
| SCALE - | | SHEET 1 OF 13 | |

| GENERAL NOTES | |
|---------------|--|
| NOTE | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH COLOR BLACK PER ND1002019. |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH COLOR BLACK PER ND1002019. WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. |

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| MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| SCALE: NONE | REV LTR | C |
| SHEET 2 OF 13 | | |

| GENERAL NOTES | |
|---------------|---|
| NOTE | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY OF THE WIRE MARKER SLEEVE. |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER N - WHITE |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GRUMMET HOLES. |
| 17 | SECURE TO CABLE USING ITEM 22. MARKING TO READ AWAY FROM CONNECTOR. |
| 18 | SEAL ZIPPER TUBING PER ND1002153. |
| 19 | SERIALIZE PER ND1002023. |
| 20 | ITEM 24 FURNISHED WITH ITEM 5. |
| 21 | ITEM 25 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 25 AS REQUIRED TO FIT. |
| 22 | SEE NOTES 10 AND 16. |

| | | |
|--|-----------|---------|
| MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| SCALE: NONE | REV LTR | C |
| SHEET 3 OF 13 | | |

| GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---------------|-----------|--------------|------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|------------|--|-----------|-----------|-----------|-------------|------------|--|--|--|--|
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.</th> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+ 1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+ 2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | + 2.00-.00 | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | + 2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| SCALE: NONE | REV LTR | A |
| SHEET 4 OF 13 | | |

| LIST OF MATERIALS | |
|-------------------|--|
| NOTE | |
| ITEM QTY | PART NO DESCRIPTION |
| 1 2 | 1900979-001 WIRE ND1002181 TYPE 2, CLASS 4, WHT. JAKT, 22AWG, WHT/BLU, WHT/RED, 208 FT. TOTAL LENGTH |
| 2 1 | 1900979-002 WIRE ND1002181 TYPE 1, CLASS 4, WHT. JAKT, 22AWG, WHT., 32 FT. TOTAL LENGTH |
| 3 1 | 1900979-003 WIRE ND1002181 TYPE 3, CLASS 4, WHT. JAKT, 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 48 FT. TOTAL LENGTH |
| 4 1 | 1900979-004 WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT., 36 FT. TOTAL LENGTH |
| 16 5 1 | MS3126F-24-61PY (1897047-613) CONNECTOR PLUG |
| 22 6 1 | 1010411-002 CONNECTOR PLUG |
| 10 7 13 | 1000243-008 FERRULE ELECT. COND. |
| 10 8 13 | 1000242-007 FERRULE ELECT. COND. |
| 10 9 3 | 1000243-011 FERRULE ELECT. COND. |
| 10 10 3 | 1000242-011 FERRULE ELECT. COND. |
| 10 11 2 | 1000243-003 FERRULE ELECT. COND. |
| 10 12 2 | 1000242-002 FERRULE ELECT. COND. |
| 10 13 16 | 1010490-194 INSULATION SLEEVING ELECT. |
| 10 14 16 | 1010490-196 INSULATION SLEEVING ELECT. |
| 10 15 3 | 1010490-258 INSULATION SLEEVING ELECT. |
| 10 16 2 | 1010490-198 INSULATION SLEEVING ELECT. |

| | | |
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| MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| SCALE: NONE | REV LTR | C |
| SHEET 5 OF 13 | | |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|-----|--------------------|-----|----------------------|-----|-------------------|-----|--------------------|-----|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. |
| A 12A | 4 | SHLD A12 | 25N | | | | | P1-C | 19N | 24 | |
| A 12L | | P1-W | 19N | 24 | | | | P2-108 | 10N | 23 | |
| A 12R | | P1-V | 19N | 24 | | | | P2-107 | 10N | 23 | |
| A 12Y | | P1-X | 19N | 24 | | | | P2-94 | 10N | 23 | |
| A 13 | 1 | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 14 7A |
| | | | | | | A 13 | | | | | |
| A 13A | 4 | SHLD A13 | 25N | | | | | E3 | 25N | | |
| A 13L | | P1-Z | 19N | 24 | | | | P2-60 | 10N | 23 | |
| A 13R | | P1-Y | 19N | 24 | | | | P2-50 | 10N | 23 | |
| A 14 | 1 | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 14 7A |
| | | | | | | A 13 | | | | | |
| A 14A | 4 | SHLD A14 | 25N | | | | | E3 | 25N | | |
| A 14L | | P1-CC | 19N | 24 | | | | P2-2 | 10N | 23 | |
| A 14R | | P1-BB | 19N | 24 | | | | P2-3 | 10N | 23 | |
| A 15 | 1 | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 14 7A |
| | | | | | | A 13 | | | | | |
| A 15A | 4 | SHLD A15 | 25N | | | | | E3 | 25N | | |

STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|--|---------------|---------|
| MANVED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| SCALE - NONE | REV LTR | D |

SHEET 10 OF 11

CONDUCTOR

INDIVIDUAL LENGTH

ITEM NO.

NO.

CUT WIRE OR SHIELD

STRIP WIRE OR JACKET

CIRCUIT POINT

FROM

TERMINATION SPEC.

NO.

TO

CUT WIRE OR SHIELD

STRIP WIRE OR JACKET

CIRCUIT POINT

TERMINATION SPEC.

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| CONDUCTOR | | | FROM | | TO | |
|-------------------|----------|---|---------------------|-------------------|----------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | 3 | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | TERMINATION SPEC. |
| | | | STEP WIRE OR JACKET | 1 | | NO. |
| NUMBER | | | CIRCUIT POINT | 2 | ITEM NO. | |
| A 19R | | | P1-MN | 19N | 24 | P2- 25 |
| A 19Y | | | P1-PP | 19N | 24 | P2- 12 |
| A 20 | | | P1-B | 19N | 24 | E1 |
| A 21 | | | E2 | 25N | | E1 |
| A 22 | | | E3 | 25N | | E2 |
| A 23 | | | DELETED | | | |

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

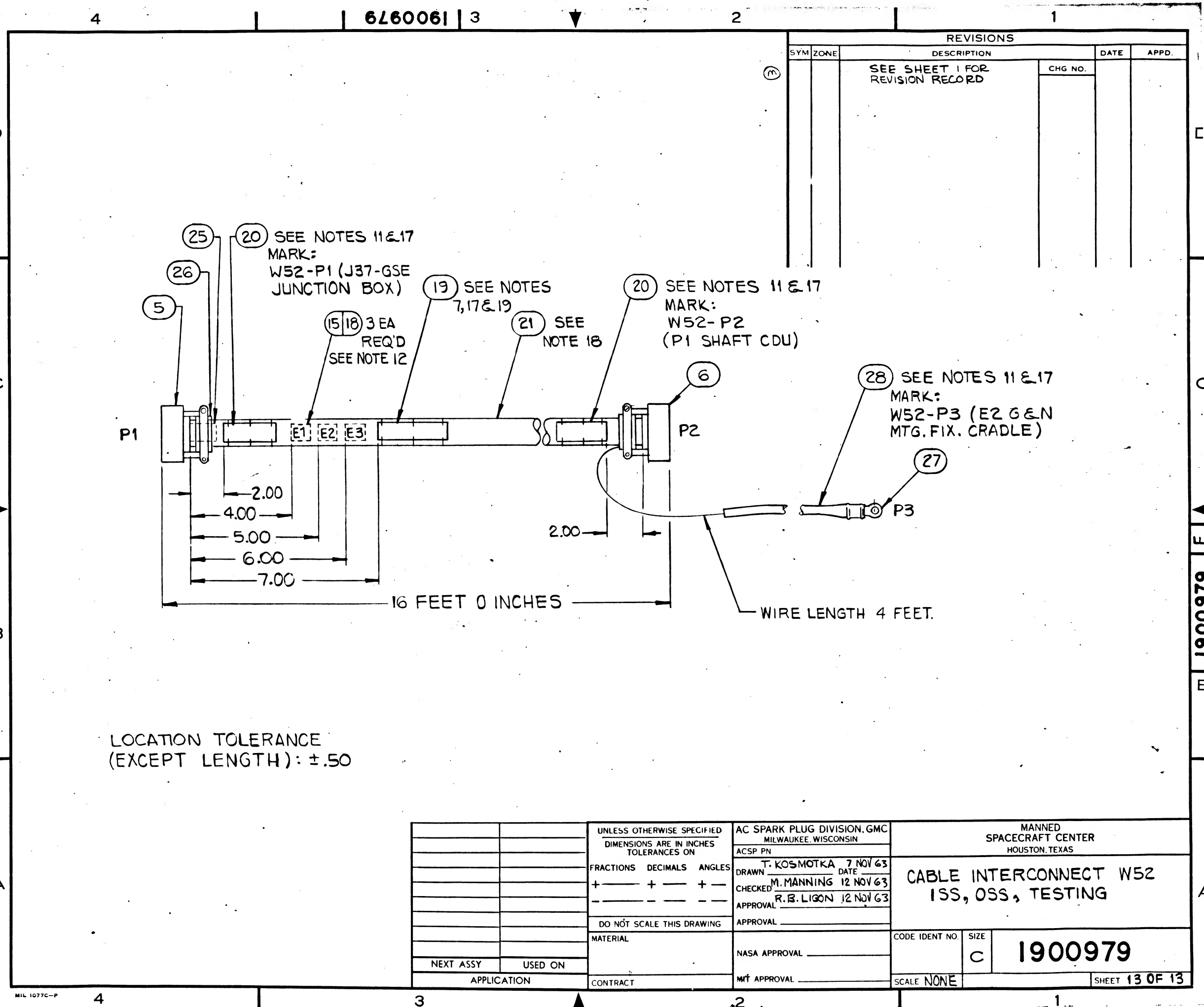
A

1900979

SCALE - NONE

REV LTR C

SHEET 12 OF 13



| | | | | | |
|---|----------|---|------------|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | DATE | CABLE INTERCONNECT W52 | |
| + | + | + | 7 NOV 63 | ISS, OSS, TESTING | |
| DO NOT SCALE THIS DRAWING | | | CHECKED | APPROVAL | |
| MATERIAL | | | M. MANNING | R. B. LIGON | |
| NEXT ASSY | | | USED ON | APPROVAL | |
| APPLICATION | | | CONTRACT | APPROVAL | |
| CODE IDENT NO. | | | SIZE | SHEET 13 OF 13 | |
| SCALE NONE | | | C | 1900979 | |

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|-------------|-------------|-----------|--|------|----------|----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | DATE | APPROVAL |
| 1901308 | 190XKUS-011 | A | CHANGE IN ACCORDANCE WITH CM 193624 T-65, 193625 T-65, 193626 T-65, 193627 T-65, 193628 T-65, 193629 T-65, 193630 T-65, 193631 T-65, 193632 T-65, 193633 T-65, 193634 T-65, 193635 T-65, 193636 T-65, 193637 T-65, 193638 T-65, 193639 T-65, 193640 T-65, 193641 T-65, 193642 T-65, 193643 T-65, 193644 T-65, 193645 T-65, 193646 T-65, 193647 T-65, 193648 T-65, 193649 T-65, 193650 T-65, 193651 T-65, 193652 T-65, 193653 T-65, 193654 T-65, 193655 T-65, 193656 T-65, 193657 T-65, 193658 T-65, 193659 T-65, 193660 T-65, 193661 T-65, 193662 T-65, 193663 T-65, 193664 T-65, 193665 T-65, 193666 T-65, 193667 T-65, 193668 T-65, 193669 T-65, 193670 T-65, 193671 T-65, 193672 T-65, 193673 T-65, 193674 T-65, 193675 T-65, 193676 T-65, 193677 T-65, 193678 T-65, 193679 T-65, 193680 T-65, 193681 T-65, 193682 T-65, 193683 T-65, 193684 T-65, 193685 T-65, 193686 T-65, 193687 T-65, 193688 T-65, 193689 T-65, 193690 T-65, 193691 T-65, 193692 T-65, 193693 T-65, 193694 T-65, 193695 T-65, 193696 T-65, 193697 T-65, 193698 T-65, 193699 T-65, 193700 T-65, 193701 T-65, 193702 T-65, 193703 T-65, 193704 T-65, 193705 T-65, 193706 T-65, 193707 T-65, 193708 T-65, 193709 T-65, 193710 T-65, 193711 T-65, 193712 T-65, 193713 T-65, 193714 T-65, 193715 T-65, 193716 T-65, 193717 T-65, 193718 T-65, 193719 T-65, 193720 T-65, 193721 T-65, 193722 T-65, 193723 T-65, 193724 T-65, 193725 T-65, 193726 T-65, 193727 T-65, 193728 T-65, 193729 T-65, 193730 T-65, 193731 T-65, 193732 T-65, 193733 T-65, 193734 T-65, 193735 T-65, 193736 T-65, 193737 T-65, 193738 T-65, 193739 T-65, 193740 T-65, 193741 T-65, 193742 T-65, 193743 T-65, 193744 T-65, 193745 T-65, 193746 T-65, 193747 T-65, 193748 T-65, 193749 T-65, 193750 T-65, 193751 T-65, 193752 T-65, 193753 T-65, 193754 T-65, 193755 T-65, 193756 T-65, 193757 T-65, 193758 T-65, 193759 T-65, 193760 T-65, 193761 T-65, 193762 T-65, 193763 T-65, 193764 T-65, 193765 T-65, 193766 T-65, 193767 T-65, 193768 T-65, 193769 T-65, 193770 T-65, 193771 T-65, 193772 T-65, 193773 T-65, 193774 T-65, 193775 T-65, 193776 T-65, 193777 T-65, 193778 T-65, 193779 T-65, 193780 T-65, 193781 T-65, 193782 T-65, 193783 T-65, 193784 T-65, 193785 T-65, 193786 T-65, 193787 T-65, 193788 T-65, 193789 T-65, 193790 T-65, 193791 T-65, 193792 T-65, 193793 T-65, 193794 T-65, 193795 T-65, 193796 T-65, 193797 T-65, 193798 T-65, 193799 T-65, 193800 T-65, 193801 T-65, 193802 T-65, 193803 T-65, 193804 T-65, 193805 T-65, 193806 T-65, 193807 T-65, 193808 T-65, 193809 T-65, 193810 T-65, 193811 T-65, 193812 T-65, 193813 T-65, 193814 T-65, 193815 T-65, 193816 T-65, 193817 T-65, 193818 T-65, 193819 T-65, 193820 T-65, 193821 T-65, 193822 T-65, 193823 T-65, 193824 T-65, 193825 T-65, 193826 T-65, 193827 T-65, 193828 T-65, 193829 T-65, 193830 T-65, 193831 T-65, 193832 T-65, 193833 T-65, 193834 T-65, 193835 T-65, 193836 T-65, 193837 T-65, 193838 T-65, 193839 T-65, 193840 T-65, 193841 T-65, 193842 T-65, 193843 T-65, 193844 T-65, 193845 T-65, 193846 T-65, 193847 T-65, 193848 T-65, 193849 T-65, 193850 T-65, 193851 T-65, 193852 T-65, 193853 T-65, 193854 T-65, 193855 T-65, 193856 T-65, 193857 T-65, 193858 T-65, 193859 T-65, 193860 T-65, 193861 T-65, 193862 T-65, 193863 T-65, 193864 T-65, 193865 T-65, 193866 T-65, 193867 T-65, 193868 T-65, 193869 T-65, 193870 T-65, 193871 T-65, 193872 T-65, 193873 T-65, 193874 T-65, 193875 T-65, 193876 T-65, 193877 T-65, 193878 T-65, 193879 T-65, 193880 T-65, 193881 T-65, 193882 T-65, 193883 T-65, 193884 T-65, 193885 T-65, 193886 T-65, 193887 T-65, 193888 T-65, 193889 T-65, 193890 T-65, 193891 T-65, 193892 T-65, 193893 T-65, 193894 T-65, 193895 T-65, 193896 T-65, 193897 T-65, 193898 T-65, 193899 T-65, 193900 T-65, 193901 T-65, 193902 T-65, 193903 T-65, 193904 T-65, 193905 T-65, 193906 T-65, 193907 T-65, 193908 T-65, 193909 T-65, 193910 T-65, 193911 T-65, 193912 T-65, 193913 T-65, 193914 T-65, 193915 T-65, 193916 T-65, 193917 T-65, 193918 T-65, 193919 T-65, 193920 T-65, 193921 T-65, 193922 T-65, 193923 T-65, 193924 T-65, 193925 T-65, 193926 T-65, 193927 T-65, 193928 T-65, 193929 T-65, 193930 T-65, 193931 T-65, 193932 T-65, 193933 T-65, 193934 T-65, 193935 T-65, 193936 T-65, 193937 T-65, 193938 T-65, 193939 T-65, 193940 T-65, 193941 T-65, 193942 T-65, 193943 T-65, 193944 T-65, 193945 T-65, 193946 T-65, 193947 T-65, 193948 T-65, 193949 T-65, | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1/17/64

G1K

CABLE #52

C

1900979

| PENNAANT | | GENERAL NOTES | |
|-------------|---|---|---------------|
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNAANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNAANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| | | MANNING SPACECRAFT CENTER HOUSTON, TEXAS | 1900979 |
| SCALE: NONE | | REV LTR C | SHEET 2 OF 13 |

| G1K | | CABLE W52 | | 1900979 | |
|---------|---|---|-----------|---------|---------------|
| PENNANT | GENERAL NOTES | | | | |
| NOTE | | | | | |
| 14 | A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER W - WHITE | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GRUMMET HOLES. | | | | |
| 17 | SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR. | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | | | |
| 19 | SERIALIZE PER ND1002023. | | | | |
| 20 | ITEM 24 FURNISHED WITH ITEM 5. | | | | |
| 21 | ITEM 25 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 25 AS REQUIRED TO FIT. | | | | |
| 22 | SEE NOTES 10 AND 16. | | | | |
| | | MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 | |
| | | SCALE: NONE | REV LTR | C | SHEET 3 OF 13 |

| G1K | | CABLE W52 | | 1900979 | |
|---------|---|---|--------------|------------|---------------|
| PENNANT | GENERAL NOTES | | | | |
| NOTE | | | | | |
| 22 | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | |
| | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | |
| | | WIRE OR CABLE | STRIP JACKET | WIRE | CUT SHIELD |
| | UNDER 1 INCH | +0.06-0.00 | +0.03-0.00 | +0.06-0.06 | +0.06-0.06 |
| | 1 INCH TO 6 INCHES | +0.50-0.00 | +0.06-0.00 | +0.25-0.25 | +0.25-0.25 |
| | 6 INCHES TO 6 FEET | +1.00-0.00 | +0.50-0.50 | +0.50-0.50 | +0.50-0.50 |
| | OVER 6 FEET | +2.00-0.00 | | | |
| | | MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 | |
| | | SCALE: NONE | REV LTR | A | SHEET 4 OF 13 |

| G1K | | CABLE W52 | | 1900979 | |
|---------|---|---|-----------|---------|---------------|
| PENNANT | LIST OF MATERIALS | | | | |
| NOTE | | | | | |
| 1 | 1900979-001 WIRE ND1002181 TYPE 2, CLASS 4, WHT. JAKT., 22AWG, WHT/BLU, WHT/RED, 200 FT. TOTAL LENGTH | | | | |
| 2 | 1900979-002 WIRE ND1002181 TYPE 1, CLASS 4, WHT. JAKT., 28AWG, WHT., 32 FT. TOTAL LENGTH | | | | |
| 3 | 1900979-003 WIRE ND1002181 TYPE 3, CLASS 4, WHT. JAKT., 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 48 FT. TOTAL LENGTH | | | | |
| 4 | 1900979-004 WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT., 36 FT. TOTAL LENGTH | | | | |
| 16 | MS3126P-24-61PY (1897047-613) CONNECTOR PLUG | | | | |
| 22 | 1010411-002 CONNECTOR PLUG | | | | |
| 10 | 7 13 1000243-008 FERRULE ELECT. COND. | | | | |
| 10 | 8 13 1000242-007 FERRULE ELECT. COND. | | | | |
| 10 | 9 3 1000243-011 FERRULE ELECT. COND. | | | | |
| 10 | 10 3 1000242-011 FERRULE ELECT. COND. | | | | |
| 10 | 11 2 1000243-005 FERRULE ELECT. COND. | | | | |
| 10 | 12 2 1000242-002 FERRULE ELECT. COND. | | | | |
| 10 | 13 16 1010498-194 INSULATION SLEEVING ELECT. | | | | |
| 10 | 14 16 1010498-196 INSULATION SLEEVING ELECT. | | | | |
| 10 | 15 3 1010498-288 INSULATION SLEEVING ELECT. | | | | |
| 10 | 16 2 1010498-198 INSULATION SLEEVING ELECT. | | | | |
| | | MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 | |
| | | SCALE: NONE | REV LTR | C | SHEET 5 OF 13 |

| G1K | | CABLE W52 | | 1900979 | |
|---------|---|---|-----------|---------|---------------|
| PENNANT | LIST OF MATERIALS | | | | |
| NOTE | | | | | |
| 10 | 17 2 1010498-280 INSULATION SLEEVING ELECT. | | | | |
| 10 | 18 3 1016006-002 SPLICE REDUCER | | | | |
| 10 | 19 1 1016128-011 BAND IDENTIFICATION | | | | |
| 10 | 20 2 1016128-041 BAND IDENTIFICATION | | | | |
| | 21 1 1900979-005 ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1 IN. DIA, 16 FT. TOTAL LENGTH | | | | |
| | 22 AR MIL-T-713 LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | | |
| 10 | 23 108 1010444-002 CONTACT SOCKET | | | | |
| 20 | 24 CONTACT PINS | | | | |
| 21 | 25 AR 1897147-104, 106, 108, 112, 116, CABLE CLAMP SLEEVE | | | | |
| 10 | 26 1 1016282-024 RUBBER GROMMET | | | | |
| 10 | 27 1 1015902-46 TERMINAL LUG | | | | |
| | 28 1 1900979-006 TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | | |
| | | MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 | |
| | | SCALE: NONE | REV LTR | E | SHEET 6 OF 13 |

| CONDUCTOR | | | | | | | | | |
|--|-----|----------|---------|----------|---------|---|---------|-------------|-----|
| INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. |
| A 1 | 1 | | 230 200 | | 7 8 5 | | 230 200 | A 14 | 7A |
| A 1A | 4 | SHLD A1 | 25M | | | E1 | 25M | | |
| A 1L | | P1-2 | 19M | 24 | | P2-14 | 10M | 23 | |
| A 1R | | P1-Y | 19M | 24 | | P2-1 | 10M | 23 | |
| A 2 | 1 | | 230 200 | | 7 8 5 | | 230 200 | A 14 | 7A |
| A 2A | 4 | SHLD A2 | 25M | | | E1 | 25M | | |
| A 2L | | P1-C | 19M | 24 | | P2-57 | 10M | 23 | |
| A 2R | | P1-B | 19M | 24 | | P2-67 | 10M | 23 | |
| A 3 | 1 | | 230 200 | | 7 8 5 | | 230 200 | A 14 | 7A |
| A 3A | 4 | SHLD A3 | 25M | | | E1 | 25M | | |
| A 3L | | P1-E | 19M | 24 | | P2-56 | 10M | 23 | |
| A 3R | | P1-D | 19M | 24 | | P2-66 | 10M | 23 | |
| A 4 | 2 | | 230 200 | | 11 12 5 | | 230 200 | A 17 | 7A |
| A 4A | 4 | SHLD A4 | 25M | | | E1 | 25M | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE REV LTR C SHEET 7 OF 13 | | | |

| CONDUCTOR | | | | | | | | | |
|--|-----|----------|---------|----------|-------|---|---------|-------------|-----|
| INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. |
| A 4W | | P1-F | 19M | 24 | | P2-34 | 10M | 23 | |
| A 5 | 1 | | 280 250 | | 7 8 5 | | 280 250 | A 14 | 7A |
| A 5A | 4 | SHLD A5 | 25M | | | E1 | 25M | | |
| A 5L | | P1-H | 19M | 24 | | P2-45 | 10M | 23 | |
| A 5R | | P1-G | 19M | 24 | | P2-35 | 10M | 23 | |
| A 6 | 1 | | 280 250 | | 7 8 5 | | 280 250 | A 14 | 7A |
| A 6A | 4 | SHLD A6 | 25M | | | E1 | 25M | | |
| A 6L | | P1-J | 19M | 24 | | P2-20 | 10M | 23 | |
| A 6R | | P1-I | 19M | 24 | | P2-6 | 10M | 23 | |
| A 7 | 1 | | 280 250 | | 7 8 5 | | 280 250 | A 14 | 7A |
| A 7A | 4 | SHLD A7 | 25M | | | E2 | 25M | | |
| A 7L | | P1-M | 19M | 24 | | P2-21 | 10M | 23 | |
| A 7R | | P1-K | 19M | 24 | | P2-7 | 10M | 23 | |
| A 8 | 1 | | 280 250 | | 7 8 5 | | 280 250 | A 14 | 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE REV LTR C SHEET 8 OF 13 | | | |

| CONDUCTOR | | | | | | | | | |
|--|-----|----------|---------|----------|---------|---|---------|-------------|-----|
| INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. |
| A 8A | 4 | SHLD A8 | 25M | | | E2 | 25M | | |
| A 8L | | P1-P | 19M | 24 | | P2-90 | 10M | 23 | |
| A 8R | | P1-N | 19M | 24 | | P2-104 | 10M | 23 | |
| A 9 | 2 | | 330 300 | | 11 12 5 | | 330 300 | A 17 | 7A |
| A 9A | 4 | SHLD A9 | 25M | | | E2 | 25M | | |
| A 9L | | P1-Q | 19M | 24 | | P2-89 | 10M | 23 | |
| A 10 | 1 | | 330 300 | | 7 8 5 | | 330 300 | A 14 | 7A |
| A 10A | 4 | SHLD A10 | 25M | | | E2 | 25M | | |
| A 10L | | P1-S | 19M | 24 | | P2-86 | 10M | 23 | |
| A 10R | | P1-R | 19M | 24 | | P2-100 | 10M | 23 | |
| A 11 | 1 | | 330 300 | | 7 8 5 | | 330 300 | A 14 | 7A |
| A 11A | 4 | SHLD A11 | 25M | | | E2 | 25M | | |
| A 11L | | P1-U | 19M | 24 | | P2-101 | 10M | 23 | |
| A 11R | | P1-T | 19M | 24 | | P2-87 | 10M | 23 | |
| A 12 | 3 | | 330 300 | | 9 10 5 | | 330 300 | A 14 | 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE REV LTR 6 SHEET 9 OF 13 | | | |

| CONDUCTOR | | | | | | | | | |
|--|-----|----------|---------|----------|-------|---|---------|-------------|-----|
| INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION | | TERMINATION | |
| NUMBER | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. | ITEM NO. | NO. |
| A 12A | 4 | SHLD A12 | 25M | | | P1-C | 19M | 24 | |
| A 12L | | P1-W | 19M | 24 | | P2-108 | 10M | 23 | |
| A 12R | | P1-V | 19M | 24 | | P2-107 | 10M | 23 | |
| A 12V | | P1-X | 19M | 24 | | P2-94 | 10M | 23 | |
| A 13 | 1 | | 380 350 | | 7 8 5 | | 380 350 | A 14 | 7A |
| A 13A | 4 | SHLD A13 | 25M | | | E3 | 25M | | |
| A 13L | | P1-Z | 19M | 24 | | P2-60 | 10M | 23 | |
| A 13R | | P1-Y | 19M | 24 | | P2-50 | 10M | 23 | |
| A 14 | 1 | | 380 350 | | 7 8 5 | | 380 350 | A 14 | 7A |
| A 14A | 4 | SHLD A14 | 25M | | | E3 | 25M | | |
| A 14L | | P1-CC | 19M | 24 | | P2-2 | 10M | 23 | |
| A 14R | | P1-BB | 19M | 24 | | P2-3 | 10M | 23 | |
| A 15 | 1 | | 380 350 | | 7 8 5 | | 380 350 | A 14 | 7A |
| A 15A | 4 | SHLD A15 | 25M | | | E3 | 25M | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE-NONE REV LTR D SHEET 10 OF 13 | | | |

| CONDUCTOR | | FROM | | TO | |
|--|----------|---|----------------|--------------------------|-----------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| | | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| A 15L | | P1-FF | 19N 24 | P2- 2 | 10N 23 |
| A 15M | | P1-EE | 19N 24 | P2-106 | 10N 23 |
| A 16 | 3 | | 380 350 9 10 5 | | 380 350 A 14 7A |
| | | | A 13 | | |
| A 16A | 4 | SHLD A16 | 25N | E3 | 25N |
| A 16L | | P1-HH | 19N 24 | P2- 31 | 10N 23 |
| A 16R | | P1-GG | 19N 24 | P2- 32 | 10N 23 |
| A 16Y | | P1-JJ | 19N 24 | P2- 43 | 10N 23 |
| A 17 | 1 | | 430 400 7 8 5 | | 430 400 A 14 7A |
| | | | A 13 | | |
| A 17A | 4 | SHLD A17 | 25N | E3 | 25N |
| A 17L | | P1-LL | 19N 24 | P2- 29 | 10N 23 |
| A 17R | | P1-KK | 19N 24 | P2- 28 | 10N 23 |
| A 18 | 4 | P3- 1 | 25N 27 | P2- 41 | 10N 23 |
| A 19 | 3 | | 430 400 9 10 5 | | 430 400 A 14 7A |
| | | | A 13 | | |
| A 19A | 4 | SHLD A19 | 25N | E3 | 25N |
| A 19L | | P1-MM | 19N 24 | P2- 11 | 10N 23 |
| 1 THE STD. CONDUCTOR TERMINATION FIGURES ARE PER | | MANNEE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900979 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR E SHEET 11 OF 13 | |

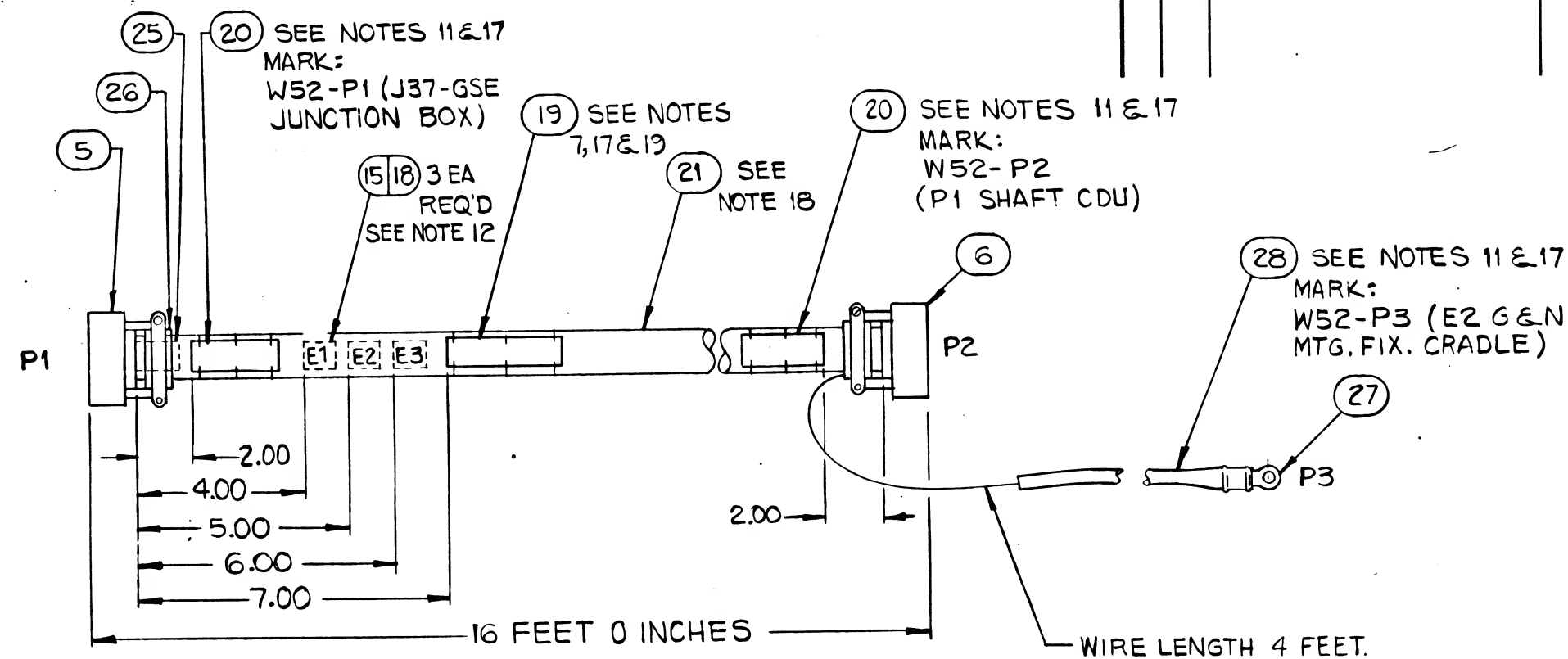
| CONDUCTOR | | FROM | | TO | |
|--|----------|---|-------------|--------------------------|-------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | NO. | STRIP WIRE OR JACKET | SPEC. NO. | STRIP WIRE OR JACKET | SPEC. NO. |
| | | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| A 19R | | P1-NN | 19N 24 | P2- 25 | 10N 23 |
| A 19Y | | P1-PP | 19N 24 | P2- 12 | 10N 23 |
| A 20 | 4 | P1-B | 19N 24 | E1 | 25N |
| A 21 | 4 | E2 | 25N | E1 | 25N |
| A 22 | 4 | E3 | 25N | E2 | 25N |
| A 23 | | DELETED | | | |
| 1 THE STD. CONDUCTOR TERMINATION FIGURES ARE PER | | MANNEE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900979 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR C SHEET 12 OF 13 | |

6260061 3

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| REVISIONS | | | | |
|---------------------------------|------|-------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| SEE SHEET 1 FOR REVISION RECORD | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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LOCATION TOLERANCE
(EXCEPT LENGTH): $\pm .50$

| | | | | | | | | | |
|-------------|--|---|--|---|--|---|--|--|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | FRACTIONS DECIMALS ANGLES | | ACSP PN | | | | | |
| | | + - + - + - | | DRAWN T. KOSMOTKA 7 NOV 63 | | CABLE INTERCONNECT W52 ISS, OSS, TESTING | | | |
| | | - - - - - | | CHECKED M. MANNING 12 NOV 63 | | | | | |
| | | | | APPROVAL R. B. LIGON 12 NOV 63 | | | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <i>[Signature]</i> 3 SEP 64 | | | | | |
| | | MATERIAL | | NASA APPROVAL | | CODE IDENT NO. SIZE | | | |
| NEXT ASSY | | USED ON | | MIT APPROVAL | | C 1900979 | | | |
| APPLICATION | | CONTRACT | | | | SCALE NONE | | | |
| | | | | | | SHEET 13 OF 13 | | | |

[illegible]

| GIX | CABLE W52 | H | 1900979 |
|---|---|---|---|
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER W - WHITE | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 22. MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | |
| 19 | SERIALIZE PER ND1002023. | | |
| 20 | ITEM 24 FURNISHED WITH ITEM 5. | | |
| 21 | ITEM 25 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 25 AS REQUIRED TO FIT. | | |
| 22 | SEE NOTES 10 AND 16. | | |
| | | | |
| <div style="border: 1px solid black; padding: 5px; text-align: center;"> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div> | | <div style="border: 1px solid black; padding: 5px; text-align: center;"> SIZE A </div> | <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1900979 </div> |
| SCALE - NONE | | REV LTR | H |
| | | | SHEET 3 OF 15 |

GIK

CABLE W52

H

1900979

| PENNANT | | LIST OF MATERIALS | | |
|---------|----------|---|-------------------------------|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 1 | 1 | 1900979-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT. JAKT. 22AWG, WHT/BLU, WHT/RED, 176 FT. TOTAL LENGTH |
| | 2 | 1 | 1900979-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT. JAKT. 22AWG, WHT., 16 FT. TOTAL LENGTH |
| | 3 | 1 | 1900979-003 | WIRE ND1002181 TYPE 3, CLASS 4, WHT. JAKT. 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 37 FT. TOTAL LENGTH |
| | 4 | 1 | 1900979-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT., 36 FT. TOTAL LENGTH |
| 16 | 5 | 1 | MS3126F-24-61PY (1897047-613) | CONNECTOR PLUG |
| 22 | 6 | 1 | 1010411-002 | CONNECTOR PLUG |
| 10 | 7 | 11 | 1000243-008 | FERRULE ELECT. COND. |
| 10 | 8 | 11 | 1000242-007 | FERRULE ELECT. COND. |
| 10 | 9 | 3 | 1000243-011 | FERRULE ELECT. COND. |
| 10 | 10 | 3 | 1000242-011 | FERRULE ELECT. COND. |
| 10 | 11 | 1 | 1000243-003 | FERRULE ELECT. COND. |
| 10 | 12 | 1 | 1000242-002 | FERRULE ELECT. COND. |
| 10 | 13 | 16 | 1010490-194 | INSULATION SLEEVING ELECT. |
| 10 | 14 | 16 | 1010490-196 | INSULATION SLEEVING ELECT. |
| 10 | 15 | 3 | 1010490-258 | INSULATION SLEEVING ELECT. |
| 10 | 16 | 2 | 1010490-198 | INSULATION SLEEVING ELECT. |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| | | SCALE - NONE | REV LTR | H SHEET 5 OF 15 |

MIL 2084 4-63

GIK

CABLE W52

H

1900979

| PENNANT | | LIST OF MATERIALS | | |
|---------|----------|---|-------------|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| 10 | 17 | 1 | 1010490-200 | INSULATION SLEEVING ELECT. |
| 10 | 18 | 3 | 1016006-002 | SPLICE REDUCER |
| 10 | 19 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 20 | 2 | 1016128-041 | BAND IDENTIFICATION |
| | 21 | 1 | 1900979-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE, 1 IN. DIA. 16 FT. TOTAL LENGTH |
| | 22 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 23 | 108 | 1010464-002 | CONTACT SOCKET |
| 20 | 24 | | | CONTACT PINS |
| 21 | 25 | AR | | 1897147-104, 106, 108, 112, 116, CABLE CLAMP SLEEVE |
| 10 | 26 | 1 | 1016282-024 | RUBBER GROMMET |
| 10 | 27 | 1 | 1015902- 46 | TERMINAL LUG |
| | 28 | 1 | 1900979-006 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH |
| | 29 | 1 | 1900979-007 | WIRE COAXIAL MIL-C-17/69A RG188A/U 9 FEET TOTAL LENGTH |
| | 30 | 2 | 1000243-006 | FERRULE ELECT. COND. |
| | 31 | 2 | 1000242-005 | FERRULE ELECT. COND. |
| | 32 | 4 | 1016369-420 | PIN CONTACT |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| | | SCALE - NONE | REV LTR | H SHEET 6 OF 15 |

MIL 2084 4-63

GIK

CABLE W52

H

1900979

| PENNANT | | GENERAL NOTES | | |
|---------|--|--|-----------------------------|--------------------|
| NOTE | | | | |
| 22 | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | |
| | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | |
| | | TOLERANCE | | |
| | | WIRE OR CABLE | STRIP WIRE | CUT SHIELD |
| | | | JACKET | WIRE |
| | | UNDER 1 INCH | + .06-.00 +.03-.00 +.06-.06 | + .06-.06 +.06-.06 |
| | | 1 INCH TO 6 INCHES | + .50-.00 +.06-.00 +.25-.25 | + .25-.25 +.25-.25 |
| | | 6 INCHES TO 6 FEET | +1.00-.00 | + .50-.50 +.50-.50 |
| | | OVER 6 FEET | +2.00-.00 | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| | | SCALE - NONE | REV LTR | H SHEET 4 OF 15 |

MIL 2084 4-63

GIK

CABLE W52

J

1900979

| PENNANT | | LIST OF MATERIALS | | |
|---------|----------|---|-------------|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 33 | 2 | 1016369-288 | OUTER MALE BODY |
| | 34 | 2 | 1016369-588 | HYRING |
| | 35 | 2 | 1016369-388 | INNER FEMALE CONTACT |
| | 36 | 4 | 1010490-202 | INSULATION SLEEVING ELEC |
| | 37 | 1 | 1900979-008 | TUBING MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINKFIT PER 1016197-007 4.5 FEET TOTAL LENGTH |
| | 38 | 1 | 1016369-140 | CONNECTOR |
| | 39 | 1 | 1902171-001 | POLARIZATION SHELL |
| | 40 | 1 | 1900979-009 | ZIPPER TUBING ND1002155, TYPE I PLASTIC FLEXIBLE 1 1/2 INCH DIA., 5 INCHES TOTAL LENGTH |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900979 |
| | | SCALE - NONE | REV LTR | J SHEET 7 OF 15 |

MIL 2084 4-63

G1K

CABLE W52

H 1900979

G1K

CABLE #

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|--|--|----------------------|-----|-----|-------|----------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| | | | | ITEM NO. | | | | ITEM NO. | | | |
| | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | |
| | | | | NO. | | | | NO. | | | |
| NUMBER | ITEM NO. | | | | | | | | | | |
| A 4W | | | | P1-F* | 19N | 24 | | P2- 34 | 10N | 23 | |
| A 5 | 1 | | | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | | | | A 13 | | | | |
| A 5A | 4 | | | SHLD A5 | 25N | | | E1 | 25N | | |
| A 5L | | | | P1-H* | 19N | 24 | | P2- 45 | 10N | 23 | |
| A 5R | | | | P1-G* | 19N | 24 | | P2- 35 | 10N | 23 | |
| A 6 | 1 | | | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | | | | A 13 | | | | |
| A 6A | 4 | | | SHLD A6 | 25N | | | E1 | 25N | | |
| A 6L | | | | P1-J* | 19N | 24 | | P2- 20 | 10N | 23 | |
| A 6R | | | | P1-I* | 19N | 24 | | P2- 6 | 10N | 23 | |
| A 7 | 1 | | | | 280 | 250 | 7 8 5 | | 280 | 250 | A 14 7A |
| | | | | | | | A 13 | | | | |
| A 7A | 4 | | | SHLD A7 | 25N | | | E2 | 25N | | |
| A 7L | | | | P1-M* | 19N | 24 | | P2- 21 | 10N | 23 | |
| A 7R | | | | P1-K* | 19N | 24 | | P2- 7 | 10N | 23 | |
| A 8 | | | | DELETED | | | | | | | |
| | | | | DELETED | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MARRIED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

1900979

H

REV LTR

9 OF 15

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

H

SHEET 9 OF 15

MIL 2085 - 4-65 WTR

G1K

CABLE W52

H 1900979

61K

CABLE #22

| CONDUCTOR | | | FROM | | | | TO | | | | | |
|-------------------|----------|--|----------------------|-----|-------------------|---|----------------------|--------|-------------------|-----|------|----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | NO. | | STRIP WIRE OR JACKET | | NO. | | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | ITEM NO. | | CIRCUIT POINT | | ITEM NO. | | | |
| NUMBER | ITEM NO. | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| A 8A | | | DELETED | | | | | | | | | |
| A 8L | | | DELETED | | | | | | | | | |
| A 8R | | | DELETED | | | | | | | | | |
| A 9 | | | DELETED | | | | | | | | | |
| | | | DELETED | | | | | | | | | |
| A 9A | | | DELETED | | | | | | | | | |
| A 9W | | | DELETED | | | | | | | | | |
| A 10 | 1 | | 330 | 300 | 7 | 8 | 5 | | 330 | 300 | A 14 | 7A |
| | | | | | A 13 | | | | | | | |
| A 10A | 4 | | SHLD A10 | 25N | | | | E2 | 25N | | | |
| A 10L | | | P1-S* | 19N | 24 | | | P2- 86 | 10N | 23 | | |
| A 10R | | | P1-R* | 19N | 24 | | | P2-100 | 10N | 23 | | |
| A 11 | 1 | | 330 | 300 | 7 | 8 | 5 | | 330 | 300 | A 14 | 7A |
| | | | | | A 13 | | | | | | | |
| A 11A | 4 | | SHLD A11 | 25N | | | | E2 | 25N | | | |
| A 11L | | | P1-U* | 19N | 24 | | | P2-101 | 10N | 23 | | |
| A 11R | | | P1-T* | 19N | 24 | | | P2- 87 | 10N | 23 | | |
| A 12 | | | DELETED | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | | |
|--|---------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900979 | |
| | A | | |
| SCALE - NONE | REV LTR | M | SHEET 10 OF 1 |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

H

SHEET 10 OF 15

MIL 2085 - 4-65 WTR

G1K

CABLE W52

H 1900979

| CABLE W52 | | | | | | | | | | | | | | |
|--|----|---|--|----------------------|-----|-----|----|----------------------|--------|---------|-----|---------------|------|----|
| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | | | |
| TERMINATION SPEC. | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | | | | |
| NO. | | | | NO. | | | | NO. | | | | | | |
| A | 1 | 1 | | 230 | 200 | 7 | 8 | 5 | | 230 | 200 | A 14 | 7A | |
| | | | | A 13 | | | | | | | | | | |
| A | 1A | 4 | | SHLD A1 | 25N | | | | E1 | 25N | | | | |
| A | 1L | | | P1-Z | 19N | 24 | | | P2- 14 | 10N | 23 | | | |
| A | 1R | | | P1-Y | 19N | 24 | | | P2- 1 | 10N | 23 | | | |
| A | 2 | 1 | | | 230 | 200 | 7 | 8 | 5 | | 230 | 200 | A 14 | 7A |
| | | | | A 13 | | | | | | | | | | |
| A | 2A | 4 | | SHLD A2 | 25N | | | | E1 | 25N | | | | |
| A | 2L | | | P1-C* | 19N | 24 | | | P2- 57 | 10N | 23 | | | |
| A | 2R | | | P1-B* | 19N | 24 | | | P2- 67 | 10N | 23 | | | |
| A | 3 | 1 | | | 230 | 200 | 7 | 8 | 5 | | 230 | 200 | A 14 | 7A |
| | | | | A 13 | | | | | | | | | | |
| A | 3A | 4 | | SHLD A3 | 25N | | | | E1 | 25N | | | | |
| A | 3L | | | P1-E* | 19N | 24 | | | P2- 56 | 10N | 23 | | | |
| A | 3R | | | P1-D* | 19N | 24 | | | P2- 66 | 10N | 23 | | | |
| A | 4 | 2 | | | 230 | 200 | 11 | 12 | 5 | | 230 | 200 | A 17 | 7A |
| | | | | A 16 | | | | | | | | | | |
| A | 4A | 4 | | SHLD A4 | 25N | | | | E1 | 25N | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | 1900979 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | A | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | H | | |
| | | | | | | | | | | | | SHEET 8 OF 15 | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

H

SHEET 8 OF 15

MIL 2085 - 4-65 WTR

G1K

CABLE W52

H 1900979

61K

CABLE W52

H

1900979

| CONDUCTOR | | FROM | | | | | | TO | | | | | |
|-------------------|---|----------------------|--|-----|-------------------|----|------|----------------------|--|-----|-------------------|------|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | NO. | | | STRIP WIRE OR JACKET | | | NO. | | |
| NUMBER | | CIRCUIT POINT | | | ITEM NO. | | | CIRCUIT POINT | | | ITEM NO. | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| A 12A | | | | | | | | | | | | | |
| A 12L | | | | | | | | | | | | | |
| A 12R | | | | | | | | | | | | | |
| A 12Y | | | | | | | | | | | | | |
| A 13 | 1 | | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | | | A 13 | | | | | | |
| A 13A | 4 | SHLD A13 | | 25N | | | | E3 | | 25N | | | |
| A 13L | | P1-Z* | | 19N | | 24 | | P2- 60 | | 10N | | 23 | |
| A 13R | | P1-Y* | | 19N | | 24 | | P2- 50 | | 10N | | 23 | |
| A 14 | 1 | | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | | | A 13 | | | | | | |
| A 14A | 4 | SHLD A14 | | 25N | | | | E3 | | 25N | | | |
| A 14L | | P1-CC | | 19N | | 24 | | P2- 2 | | 10N | | 23 | |
| A 14R | | P1-BB | | 19N | | 24 | | P2- 3 | | 10N | | 23 | |
| A 15 | | DELETED | | | | | | | | | | | |
| | | DELETED | | | | | | | | | | | |
| A 15A | | DELETED | | | | | | | | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

SCALE - NONE

REV LTR

H

1900979

SHEET 11 OF 1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

H

SHEET 11 OF 15

MIL 2085 - 4-65 WTR

61K

CABLE #52

H 1900979

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | | TO | | |
|---|--|---------------|--------------------------|--|-----------------|--------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. NO. |
| | ITEM NO. | CIRCUIT POINT | | ITEM NO. | CIRCUIT POINT | |
| A 15L | | DELETED | | | | |
| A 15R | | DELETED | | | | |
| A 16 | 3 | | 360 350 9 10 5 | | 360 350 A 14 7A | |
| A 16A | 4 | SHLD A16 | 25N | | E3 | |
| A 16L | | P1-HH | 19N 24 | | P2-31 | 10N 23 |
| A 16R | | P1-GG | 19N 24 | | P2-32 | 10N 23 |
| A 16Y | | P1-JJ | 19N 24 | | P2-43 | 10N 23 |
| A 17 | 1 | | 430 400 7 8 5 | | 430 400 A 14 7A | |
| A 17A | 4 | SHLD A17 | 25N | | E3 | |
| A 17L | | P1-LL | 19N 24 | | P2-29 | 10N 23 |
| A 17R | | P1-KK | 19N 24 | | P2-28 | 10N 23 |
| A 18 | 4 | P3-1 | 25N 27 | | P2-41 | 10N 23 |
| A 19 | 3 | | 430 400 9 10 5 | | 430 400 A 14 7A | |
| A 19A | 4 | SHLD A19 | 25N | | E3 | |
| A 19L | | P1-MH | 19N 24 | | P2-11 | 10N 23 |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | SCALE - NONE | REV LTR | H | 1900979 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | SIZE A | SHEET 12 OF 15 | | |

MIL SPEC - 245 WIN

61K

CABLE #52

H 1900979

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | | TO | | |
|---|--|---------------|--------------------------|--|----------------|--------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. NO. |
| | ITEM NO. | CIRCUIT POINT | | ITEM NO. | CIRCUIT POINT | |
| A 19R | | P1-MN | 19N 24 | | P2-25 | 10N 23 |
| A 19Y | | P1-PP | 19N 24 | | P2-12 | 10N 23 |
| A 20 | 4 | P1-B | 19N 24 | | E1 | 25N |
| A 21 | 4 | E2 | 25N | | E1 | 25N |
| A 22 | 4 | E3 | 25N | | E2 | 25N |
| A 23 | | DELETED | | | | |
| A 24 | 29 | | 280 250 30 31 5 | | 56 | A 36 |
| A 24A | 4 | SHLD A24 | 37N | | P2-92 | 10N 23 |
| A 24W | | P2-106 | 10N 23 | | P4-D | 18 35 |
| A 24B | | SHLD A24 | | | P4-D SHLD | N 25 33 34 |
| A 25 | 4 | P2-89 | 10N 23 | | P4-M | 79N 32 |
| A 26 | 3 | | 330 300 A 14 7A | | 330 300 9 10 5 | |
| A 26B | 4 | SHLD A26 | 37N | | P4-B | 19N |
| A 26R | | P2-107 | 19N 23 | | P4-E | 19N 32 |
| A 26L | | P2-108 | 19N 23 | | P4-F | 19N 32 |
| A 26Y | | P2-94 | 19N 23 | | P4-B | 19N 32 |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | SCALE - NONE | REV LTR | H | 1900979 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | SIZE A | SHEET 13 OF 15 | | |

MIL SPEC - 245 WIN

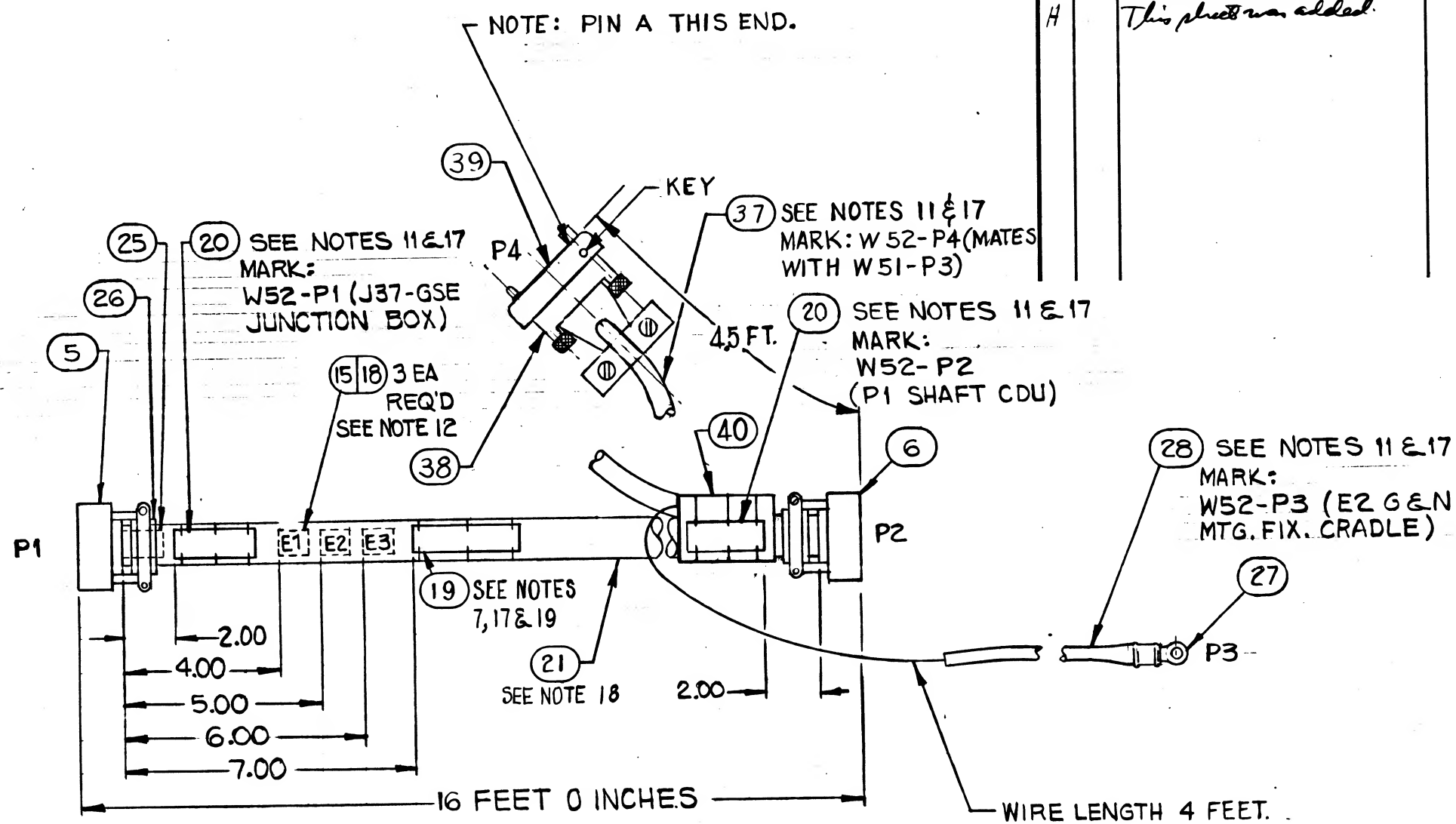
61K

CABLE #52

H 1900979

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | | TO | | |
|---|--|---------------|--------------------------|--|---------------|--------------------------|
| | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD STRIP WIRE OR JACKET | | TERMINATION SPEC. NO. |
| | ITEM NO. | CIRCUIT POINT | | ITEM NO. | CIRCUIT POINT | |
| A 27 | 29 | | 380 300 30 31 5 | | 56 | A 36 |
| A 27A | 4 | SHLD A27 | 37N | | P2-90 | 10N 23 |
| A 27W | | P2-104 | 10N 23 | | P4-J | 18 35 |
| A 27B | | SHLD A27 | | | P4-J SHLD | N 25 33 34 |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | SCALE - NONE | REV LTR | H | 1900979 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | SIZE A | SHEET 14 OF 15 | | |

MIL SPEC - 245 WIN



LOCATION TOLERANCE
(EXCEPT LENGTH): $\pm .50$

| | | | | | |
|---|----------|---|-------------------------------|---|----------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | ACSP PN | CABLE INTERCONNECT W52 ISS, OSS, TESTING | |
| + | + | + | DRAWN T. KOSMOTKA 7 NOV 63 | CODE IDENT NO. | SIZE |
| + | + | + | CHECKED M. MANNING 12 NOV 63 | C | 1900979 |
| + | + | + | APPROVAL R.B. LIGON 12 NOV 63 | SCALE NONE | SHEET 15 OF 15 |
| DO NOT SCALE THIS DRAWING | | | APPROVAL J. M. Watson 1-5-65 | | |
| MATERIAL | | | NASA APPROVAL | | |
| NEXT ASSY USED ON | | | MIT APPROVAL | | |
| APPLICATION | | | CONTRACT | | |

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|-------------|------|-------|-----------------|--|
| | 1 | 1 | 1900979-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JAKT, 22 AWG, WHT/BLU, WHT/RED, 208 FT. TOTAL LENGTH |
| | 2 | 1 | 1900979-002 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JAKT, 22 AWG, WHT, 32 FT. TOTAL LENGTH |
| | 3 | 1 | 1900979-003 | WIRE ND 1002181 TYPE 3, CLASS 4, WHT JAKT, 22 AWG, WHT/BLU, WHT/RED, WHT/YEL, 48 FT. TOTAL LENGTH. |
| | 4 | 1 | 1900979-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG, WHT, 36 FT. TOTAL LENGTH |
| 16 | 5 | 1 | MS3126F 24-61PY | (1897047-613) CONNECTOR PLUG |
| 16 | 6 | 1 | 1010411-2 | CONNECTOR PLUG |
| 10 | 7 | 13 | 1000243-008 | FERRULE ELECT COND |
| 10 | 8 | 13 | 1000242-007 | |
| 10 | 9 | 3 | 1000243-011 | |
| 10 | 10 | 3 | 1000242-011 | |
| 10 | 11 | 2 | 1000243-003 | |
| 10 | 12 | 2 | 1000242-003 | |
| 10 | 13 | 16 | 1010490-194 | INSULATION SLEEVING ELECT |
| 10 | 14 | 16 | 1010490-196 | |
| 10 | 15 | 4 | 1010490-258 | |
| 10 | 16 | 2 | 1010490-198 | |
| 10 | 17 | 2 | 1010490-200 | |
| 10 | 18 | 4 | 1016006-002 | SPLICE REDUCER |

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

+

SHEET 6 OF 13

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|-------------|------|-------|-------------|---|
| 10 | 19 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 20 | 2 | 1016128-041 | BAND IDENTIFICATION |
| | 21 | 1 | 1900979-005 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 13/16 DIA. 16 FT TOTAL LENGTH |
| | 22 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES2732 NO. 18) |
| 10 | 23 | 108 | 1010464-2 | CONTACT SOCKET |

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

+

SHEET 5 OF 13

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|------|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 1 | | 230 | 200 | A 14 | 7A | | 230 | 200 |
| A 1A | 4 | SHLD A1 | 37N | | | E1 | 37N | | |
| A 1L | | P1-Z | 22N | | | P2- 14 | 22N | 23 | |
| A 1R | | P1-Y | 22N | | | P2- 1 | 22N | 23 | |
| A 2 | 1 | | 230 | 200 | A 14 | 7A | | 230 | 200 |
| A 2A | 4 | SHLD A2 | 37N | | | E1 | 37N | | |
| A 2L | | P1-D* | 22N | | | P2- 67 | 22N | 23 | |
| A 2R | | P1-C* | 22N | | | P2- 57 | 22N | 23 | |
| A 3 | 1 | | 230 | 200 | A 14 | 7A | | 230 | 200 |
| A 3A | 4 | SHLD A3 | 37N | | | E1 | 37N | | |
| A 3L | | P1-E* | 22N | | | P2- 56 | 22N | 23 | |
| A 3R | | P1-D* | 22N | | | P2- 66 | 22N | 23 | |
| A 4 | 2 | | 230 | 200 | A 17 | 7A | | 230 | 200 |
| A 4A | 4 | SHLD A4 | 37N | | | E1 | 37N | | |

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE
A

1900979

SCALE - NONE

REV LTR

+

SHEET 7 OF 13

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|------|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 4W | | P1-F* | 22N | | | P2- 34 | 22N | 23 | |
| A 5 | 1 | | 280 | 250 | A 14 | 7A | | 280 | 250 |
| A 5A | 4 | SHLD A5 | 37N | | | E1 | 37N | | |
| A 5L | | P1-H* | 22N | | | P2- 45 | 22N | 23 | |
| A 5R | | P1-G* | 22N | | | P2- 35 | 22N | 23 | |
| A 6 | 1 | | 280 | 250 | A 14 | 7A | | 280 | 250 |
| A 6A | 4 | SHLD A6 | 37N | | | E1 | 37N | | |
| A 6L | | P1-J* | 22N | | | P2- 20 | 22N | 23 | |
| A 6R | | P1-I* | 22N | | | P2- 6 | 22N | 23 | |
| A 7 | 1 | | 280 | 250 | A 14 | 7A | | 280 | 250 |
| A 7A | 4 | SHLD A7 | 37N | | | E2 | 37N | | |
| A 7L | | P1-M* | 22N | | | P2- 21 | 22N | 23 | |
| A 7R | | P1-K* | 22N | | | P2- 7 | 22N | 23 | |
| A 8 | 1 | | 280 | 250 | A 14 | 7A | | 280 | 250 |

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE
A

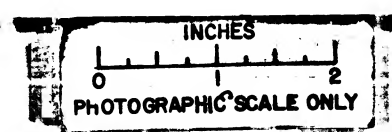
1900979

SCALE - NONE

REV LTR

+

SHEET 8 OF 13



G1K

CABLE W52

1900979

| CONDUCTOR | | FROM | | TO | |
|--|---|---|-----------------|--------------------------|---------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| A 12A | 4 | SHLD A12 | 37N | E2 | 37N |
| A 12L | | P1-W* | 22N | P2-108 | 22N |
| A 12R | | P1-V* | 22N | P2-107 | 22N |
| A 12Y | | P1-X* | 22N | P2- 94 | 22N |
| A 13 | 1 | | 380 350 A 14 7A | | 380 350 7 8 5 |
| A 13A | 4 | SHLD A13 | 37N | E3 | 37N |
| A 13L | | P1-Z* | 22N | P2- 60 | 22N |
| A 13R | | P1-Y* | 22N | P2- 50 | 22N |
| A 14 | 1 | | 380 350 A 14 7A | | 380 350 7 8 5 |
| A 14A | 4 | SHLD A14 | 37N | E3 | 37N |
| A 14L | | P1-CC | 22N | P2- 2 | 22N |
| A 14R | | P1-BB | 22N | P2- 3 | 22N |
| A 15 | 1 | | 380 350 A 14 7A | | 380 350 7 8 5 |
| A 15A | 4 | SHLD A15 | 37N | E3 | 37N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900979 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR + SHEET 10 OF 13 | |

MIL 2085 - 4-83 WIR

G1K

CABLE W52

1900979

| CONDUCTOR | | FROM | | TO | |
|--|---|---|-----------------|--------------------------|----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| A 15L | | P1-FF | 22N | P2- 92 | 22N |
| A 15R | | P1-EE | 22N | P2-106 | 22N |
| A 16 | 3 | | 380 350 A 14 7A | | 380 350 9 10 5 |
| A 16A | 4 | SHLD A16 | 37N | E3 | 37N |
| A 16L | | P1-MH | 22N | P2- 31 | 22N |
| A 16R | | P1-GG | 22N | P2- 32 | 22N |
| A 16Y | | P1-JJ | 22N | P2- 43 | 22N |
| A 17 | 1 | | 430 400 A 14 7A | | 430 400 7 8 5 |
| A 17A | 4 | SHLD A17 | 37N | E3 | 37N |
| A 17L | | P1-LL | 22N | P2- 29 | 22N |
| A 17R | | P1-KK | 22N | P2- 28 | 22N |
| A 18 | 4 | P1-A | 22N | P2- 41 | 22N |
| A 19 | 3 | | 430 400 A 14 7A | | 430 400 9 10 5 |
| A 19A | 4 | SHLD A19 | 37N | E3 | 37N |
| A 19L | | P1-MM | 22N | P2- 11 | 22N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900979 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR + SHEET 11 OF 13 | |

MIL 2085 - 4-83 WIR

G1K

CABLE W52

1900979

| CONDUCTOR | | FROM | | TO | |
|--|---|---|-----------------|-------------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| A 8A | 4 | SHLD A8 | 37N | E2 | 37N |
| A 8L | | P1-P* | 22N | P2- 90 | 22N |
| A 8R | | P1-N* | 22N | P2-104 | 22N |
| A 9 | 2 | | 330 300 A 17 7A | | 330 300 11 12 5 |
| A 9A | 4 | SHLD A9 | 37N | E2 | 37N |
| A 9W | | P1-Q* | 22N | P2- 89 | 22N |
| A 10 | 1 | | 330 300 A 14 7A | | 330 300 7 8 5 |
| A 10A | 4 | SHLD A10 | 37N | E2 | 37N |
| A 10L | | P1-S* | 22N | P2- 86 | 22N |
| A 10R | | P1-R* | 22N | P2-100 | 22N |
| A 11 | 1 | | 330 300 A 14 7A | | 330 300 7 8 5 |
| A 11A | 4 | SHLD A11 | 37N | E2 | 37N |
| A 11L | | P1-U* | 22N | P2- 87 | 22N |
| A 11R | | P1-T* | 22N | P2-101 | 22N |
| A 12 | 3 | | 330 300 A 14 7A | | 330 300 9 10 5 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900979 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR + SHEET 9 OF 13 | |

MIL 2085 - 4-83 WIR

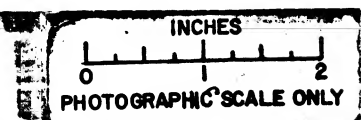
G1K

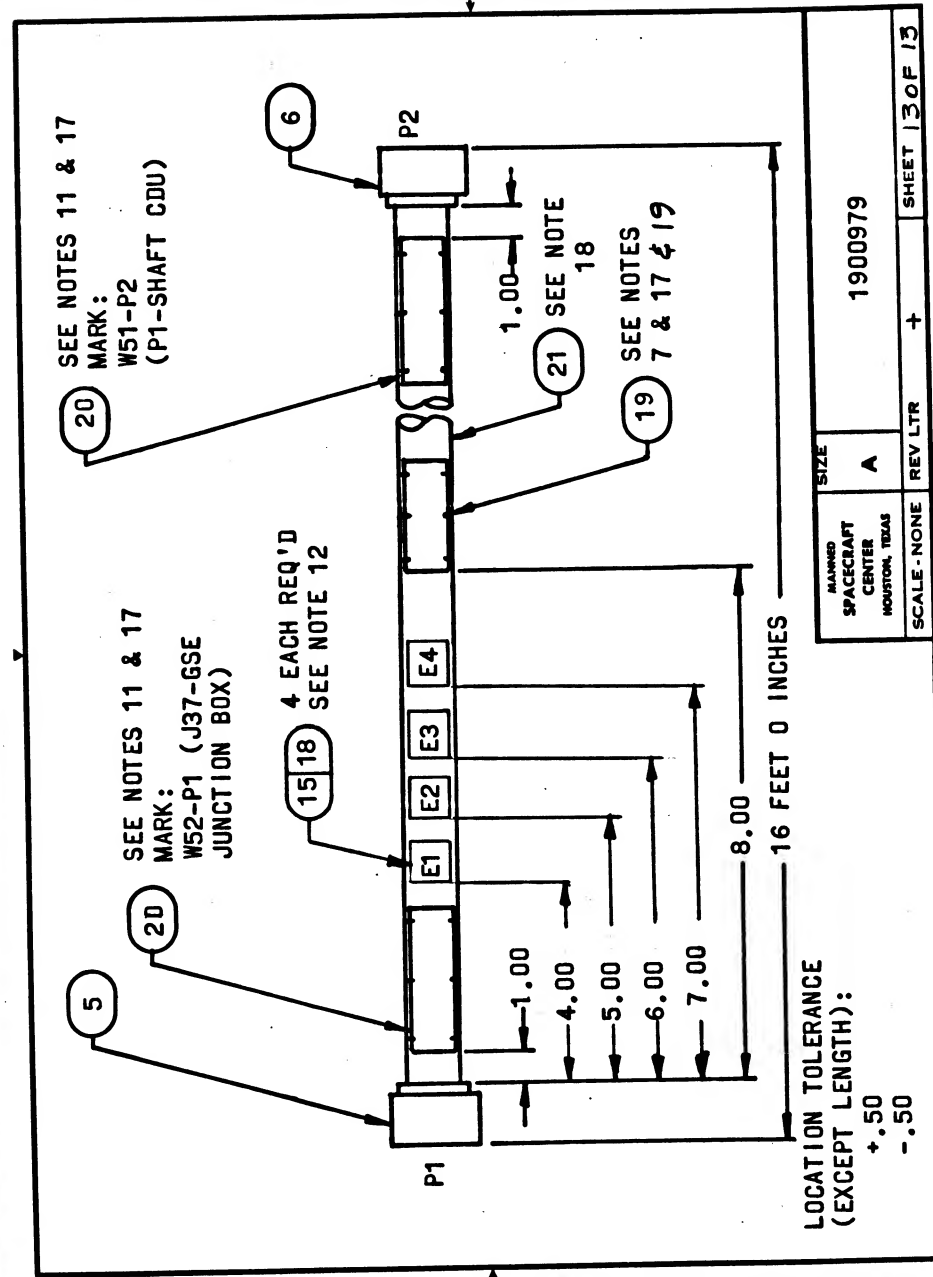
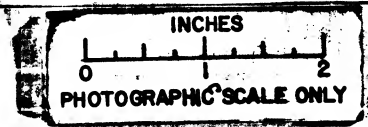
CABLE W52

1900979

| CONDUCTOR | | FROM | | TO | |
|--|---|---|-----|--------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| ITEM NO. | | STRIP WIRE OR JACKET | | STRIP WIRE OR JACKET | |
| CIRCUIT POINT | | CIRCUIT POINT | | CIRCUIT POINT | |
| NO. | | NO. | | NO. | |
| A 19R | | P1-NN | 22N | P2- 25 | 22N |
| A 19Y | | P1-PP | 22N | P2- 12 | 22N |
| A 20 | 4 | P1-B | 22N | E1 | 37N |
| A 21 | 4 | E2 | 37N | E1 | 37N |
| A 22 | 4 | E3 | 37N | E2 | 37N |
| A 23 | 4 | E4 | 37N | E3 | 37N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900979 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR + SHEET 12 OF 13 | |

MIL 2085 - 4-83 WIR





| | | | |
|-------------------|---|---|---------|
| 611 | CABLE W51 | A | 1900980 |
| PERMANENT NOTE | GENERAL NOTES | | |
| 14 | A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING COLOR OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER K - WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR BROWNET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 21. MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUNING PER ND1002153 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 21 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| 20 | ITEM 25 FURNISHED WITH ITEM 5. | | |

| | | | | | | | | | | | | | | | | | |
|---|---|------------------|----------|-----------------|----------|---------------|--|--|--|--|--|--|--|--|--|--|--|
| G11 | | CABLE W53 | | A | | 1900980 | | | | | | | | | | | |
| PERMANENT | | GENERAL NOTLS | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | | TOLERANCE | | | | | | | | | | | | | | | |
| | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | |
| UNDER 1 INCH | + | .00-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + | .50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | + | 1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 | | | | | | | | | | | |
| OVER 6 FEET | + | 2.00-.00 | | | | | | | | | | | | | | | |

| | | | | | | | |
|------------|------|-------------------|------------------------------|---|--|------------------|---------------|
| G11 | | CABLE #53 | | A | | 1900980 | |
| PERMANENT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO. | DESCRIPTION | | | |
| | 1 | 1 | 1900980-001 | WIRE ND1002181 TYPE 3, CLASS 4, WHITE JACKET 22AWG WHI/RED, WHI/BLU, WHI/YEL 48 FT TOT. LG | | | |
| | 2 | 1 | 1900980-002 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHI/RED, WHI/BLU 176 FT TOTAL LENGTH | | | |
| | 3 | 1 | 1900980-003 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT 64 FT TOTAL LENGTH | | | |
| | 4 | 1 | 1900980-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT 75 FT TOTAL LENGTH | | | |
| | 5 | 1 | M00126F24-01PW (1597047-611) | CONNECTOR, PLUG | | | |
| 16 | 6 | 1 | 1010411-002 | CONNECTOR, PLUG | | | |
| 17 | 7 | 4 | 1000243-003 | FERRULE, ELEC COND | | | |
| 10 | 8 | 4 | 1000242-002 | FERRULE, ELEC COND | | | |
| 10 | 9 | 11 | 1000243-008 | FERRULE, ELEC COND | | | |
| 10 | 10 | 11 | 1000242-007 | FERRULE, ELEC COND | | | |
| 10 | 11 | 3 | 1000243-011 | FERRULE, ELEC COND | | | |
| 10 | 12 | 3 | 1000242-011 | FERRULE, ELEC COND | | | |
| 10 | 13 | 26 | 1010490-198 | INSULATION, SLEEVING ELEC | | | |
| 10 | 14 | 6 | 1010490-196 | INSULATION, SLEEVING ELEC | | | |
| 10 | 15 | 4 | 1010490-200 | INSULATION, SLEEVING ELEC | | | |
| 10 | 16 | 3 | 1010490-258 | INSULATION, SLEEVING ELEC | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900980 |
| SCALE-NONE | | | | REV LTR | | A | SHEET 5 OF 13 |

G11

5 CABLE #53

A

1900980

PERMANENT

LIST OF MATERIAL

| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
|------|------|-----|---------------------------------|--|
| 10 | 17 | 2 | 1016128-041 | BAND IDENTIFICATION |
| 10 | 18 | 4 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 19 | 3 | 1016006-002 | SPLICE REDUCER |
| | 20 | 1 | 1900980-005 | ZIPPER TUBING ND100195 TYPE 1, PLASTIC FLEXIBLE 1 IN. DIA 16 FT TOTAL LENGTH |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 1H) |
| 10 | 22 | 106 | 1010464-002 | CONTACT, SOCKET |
| 20 | 23 | | | CONTACT PIN |
| 21 | 24 | AR | 1897147-104,-106,-108,-112,-116 | CABLE CLAMP SLEEVE |
| | 25 | 1 | 1016252-024 | RUBBER GROMMET |

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900980

SCALE-NONE

REV LTR

A

SHEET 6 OF 13

G11

CABLE #53

A

1900980

| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|------|-----|---------|--------------------|-----|---|------|--------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| STRIP WIRE OR JACKET | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | |
| NUMBER | ITEM | NO. | | ITEM NO. | | | | ITEM NO. | | | |
| A 1 | 4 | | P1-A* | 19N | 23 | | | P2- 30 | 10N | | |
| A 2 | 3 | | | 230 | 200 | 7 | 6 | | 230 | 200 | A 15 7A |
| | | | | | | | A 13 | | | | |
| A 2A | 4 | | SHLD A2 | 25N | | | | E1 | 25N | | |
| A 2W | | | P1-B* | 19N | 23 | | | P2- 12 | 10N | 22 | |
| A 3 | 2 | | | 230 | 200 | 9 | 10 | | 230 | 200 | A 13 7A |
| | | | | | | | A 13 | | | | |
| A 3A | 4 | | SHLD A3 | 25N | | | | E1 | 25N | | |
| A 3L | | | P1-D* | 19N | 23 | | | P2- 14 | 10N | 22 | |
| A 3R | | | P1-C* | 19N | 23 | | | P2- 1 | 10N | 22 | |
| A 4 | 2 | | | 230 | 200 | 9 | 10 | | 230 | 200 | A 13 7A |
| | | | | | | | A 13 | | | | |
| A 4A | 4 | | SHLD A4 | 25N | | | | E1 | 25N | | |
| A 4L | | | P1-F* | 19N | 23 | | | P2- 57 | 10N | 22 | |
| A 4R | | | P1-E* | 19N | 23 | | | P2- 67 | 10N | 22 | |
| A 5 | 2 | | | 230 | 200 | 9 | 10 | | 230 | 200 | A 13 7A |
| | | | | | | | A 13 | | | | |
| A 5A | 4 | | SHLD A5 | 25N | | | | E1 | 25N | | |

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900980

SCALE-NONE

REV LTR

A

SHEET 7 OF 13

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

G11

CABLE #53

A

1900980

| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|----------|--|---------|----------------------|-----|---|------|----------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | ITEM NO. | | | ITEM NO. | | | | ITEM NO. | | | |
| A 5L | | | P1-H* | 19N | 23 | | | P2-45 | 10N | 22 | |
| A 5K | | | P1-G* | 19N | 23 | | | P2-35 | 10N | 22 | |
| A 6 | 3 | | | 230 | 250 | 7 | 6 | | 230 | 250 | A 13 7A |
| | | | | | | | A 13 | | | | |
| A 6A | 4 | | SHLD A6 | 25N | | | | E1 | 25N | | |
| A 6W | | | P1-I* | 19N | 23 | | | P2-34 | 10N | 22 | |
| A 7 | 2 | | | 230 | 250 | 9 | 10 | | 230 | 250 | A 13 7A |
| | | | | | | | A 13 | | | | |
| A 7A | 4 | | SHLD A7 | 25N | | | | E1 | 25N | | |
| A 7L | | | P1-K* | 19N | 23 | | | P2-6 | 10N | 22 | |
| A 7R | | | P1-J* | 19N | 23 | | | P2-20 | 10N | 22 | |
| A 8 | 2 | | | 230 | 250 | 9 | 10 | | 230 | 250 | A 13 7A |
| | | | | | | | A 13 | | | | |
| A 8A | 4 | | SHLD A8 | 25N | | | | E2 | 25N | | |
| A 8L | | | P1-N* | 19N | 23 | | | P2-7 | 10N | 22 | |
| A 8R | | | P1-M* | 19N | 23 | | | P2-21 | 10N | 22 | |
| A 9 | 2 | | | 230 | 250 | 9 | 10 | | 230 | 250 | |
| | | | | | | | A 13 | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
 SPACECRAFT
 CENTER
 HOUSTON, TEXAS

SIZE

A

1900980

SCALE-NONE

REV LTR

A

SHEET

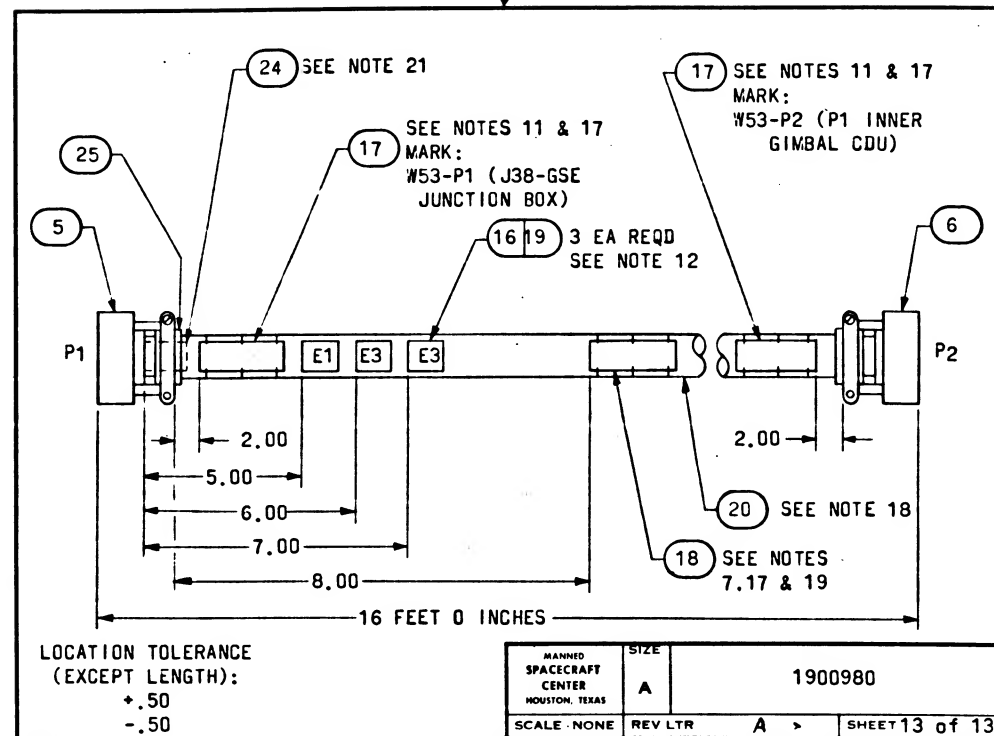
8 OF

| CABLE W53 | | | | | | | | | |
|--|----------|-------------------|--------------------|-----------------|---------------------|---|--------|-----------------|-------------------|
| B 1900980 | | | | | | | | | |
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | NUMBER | ITEM NO. | INDIVIDUAL LENGTH |
| | | | | | | | | | |
| A 9A | 4 | | SHLD A9 | 25N | | | E2 | 25N | |
| A 9L | | | P1-O* | 19N | 23 | | P2-90 | 10N | 22 |
| A 9R | | | P1-P* | 19N | 23 | | P2-104 | 10N | 22 |
| A 10 | 2 | | | 380 300 9 10 5 | | | | 330 300 A 13 7A | |
| | | | | A 13 | | | | | |
| A 10A | 4 | | SHLD A10 | 25N | | | E2 | 25N | |
| A 10L | | | P1-S* | 19N | 23 | | P2-86 | 10N | 22 |
| A 10R | | | P1-R* | 19N | 23 | | P2-100 | 10N | 22 |
| A 11 | 2 | | | 380 300 9 10 5 | | | | 330 300 A 13 7A | |
| | | | | A 13 | | | | | |
| A 11A | 4 | | SHLD A11 | 25N | | | E2 | 25N | |
| A 11L | | | P1-U* | 19N | 23 | | P2-87 | 10N | 22 |
| A 11R | | | P1-T* | 19N | 23 | | P2-101 | 10N | 22 |
| A 12 | 1 | | | 380 300 11 12 5 | | | | 330 300 A 14 7A | |
| | | | | A 14 | | | | | |
| A 12A | 4 | | SHLD A12 | 25N | | | P1-C | 19N | |
| A 12L | | | P1-W* | 19N | 23 | | P2-108 | 10N | 22 |
| A 12R | | | P1-V* | 19N | 23 | | P2-107 | 10N | 22 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900980 | | | |
| SCALE - NONE | | | | | | REV LTR B SHEET 9 OF 13 | | | |

| CABLE W53 | | | | | | | | | |
|--|----------|-------------------|--------------------|-----------------|---------------------|---|--------|-----------------|-------------------|
| A 1900980 | | | | | | | | | |
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | NUMBER | ITEM NO. | INDIVIDUAL LENGTH |
| | | | | | | | | | |
| A 12Y | | | P1-X* | 19N | 23 | | P2-94 | 10N | 22 |
| A 13 | 2 | | | 380 300 9 10 5 | | | | 330 300 A 13 7A | |
| | | | | A 13 | | | | | |
| A 13A | 4 | | SHLD A13 | 25N | | | E2 | 25N | |
| A 13L | | | P1-Z* | 19N | 23 | | P2-50 | 10N | 22 |
| A 13R | | | P1-Y* | 19N | 23 | | P2-60 | 10N | 22 |
| A 14 | 4 | | P1-AA | 19N | 23 | | P2-16 | 10N | 22 |
| A 15 | 2 | | | 380 350 9 10 5 | | | | 380 350 A 13 7A | |
| | | | | A 13 | | | | | |
| A 15A | 4 | | SHLD A15 | 25N | | | E3 | 25N | |
| A 15L | | | P1-CC | 19N | 23 | | P2-2 | 10N | |
| A 15R | | | P1-BB | 19N | 23 | | P2-3 | 10N | |
| A 16 | 1 | | | 380 350 11 12 5 | | | | 380 350 A 14 7A | |
| | | | | A 14 | | | | | |
| A 16A | 4 | | SHLD A16 | 25N | | | E3 | 25N | |
| A 16L | | | P1-FF | 19N | 23 | | P2-15 | 10N | 22 |
| A 16R | | | P1-EE | 19N | 23 | | P2-92 | 10N | 22 |
| A 16Y | | | P1-GG | 19N | 23 | | P2-106 | 10N | 22 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900980 | | | |
| SCALE - NONE | | | | | | REV LTR A SHEET 10 OF 13 | | | |

| CABLE W53 | | | | | | | | | |
|--|----------|-------------------|--------------------|-----------------|---------------------|---|--------|-----------------|-------------------|
| A 1900980 | | | | | | | | | |
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | NUMBER | ITEM NO. | INDIVIDUAL LENGTH |
| | | | | | | | | | |
| A 17 | 1 | | | 380 350 11 12 5 | | | | 380 350 A 14 7A | |
| | | | | A 14 | | | | | |
| A 17A | 4 | | SHLD A17 | 25N | | | E3 | 25N | |
| A 17L | | | P1-JJ | 19N | 23 | | P2-31 | 10N | 22 |
| A 17R | | | P1-HH | 19N | 23 | | P2-32 | 10N | 22 |
| A 17Y | | | P1-KK | 19N | 23 | | P2-43 | 10N | 22 |
| A 18 | 2 | | | 380 350 9 10 5 | | | | 380 350 A 13 7A | |
| | | | | A 13 | | | | | |
| A 18A | 4 | | SHLD A18 | 25N | | | E3 | 25N | |
| A 18L | | | P1-MM | 19N | 23 | | P2-29 | 10N | 22 |
| A 18R | | | P1-LL | 19N | 23 | | P2-28 | 10N | 22 |
| A 19 | 4 | | P1-AA | 19N | 23 | | P2-41 | 10N | 22 |
| A 19L | | | P1-NN | 19N | 23 | | P2-29 | 10N | 22 |
| A 20 | 3 | | | 430 400 7 8 5 | | | | 430 400 A 15 7A | |
| | | | | A 15 | | | | | |
| A 20A | 4 | | SHLD A20 | 25N | | | E3 | 25N | |
| A 20L | | | P1-NN | 19N | 23 | | P2-11 | 10N | 22 |
| A 21 | 3 | | | 430 400 7 8 5 | | | | 430 400 A 15 7A | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900980 | | | |
| SCALE - NONE | | | | | | REV LTR A SHEET 11 OF 13 | | | |

| CABLE W53 | | | | | | | | | |
|--|----------|-------------------|--------------------|---------------|---------------------|---|--------|----------|-------------------|
| A 1900980 | | | | | | | | | |
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | CIRCUIT POINT | TERMINATION SPEC. 1 | NO. | NUMBER | ITEM NO. | INDIVIDUAL LENGTH |
| | | | | | | | | | |
| A 21A | 4 | | SHLD A21 | 25N | | | E3 | 25N | |
| A 21W | | | P1-PP | 19N | 23 | | P2-25 | 10N | 22 |
| A 22 | 4 | | P1-H | 19N | 23 | | E1 | 25N | |
| A 23 | 4 | | E2 | 25N | | | E1 | 25N | |
| A 24 | 4 | | E3 | 25N | | | E2 | 25N | |
| A 25 | 4 | | P1-DD | 19N | 23 | | P2-15 | 10N | 22 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A 1900980 | | | |
| SCALE - NONE | | | | | | REV LTR A SHEET 12 OF 13 | | | |



G11 CABLE W53 A 1900980

PENNANT NOTE

GENERAL NOTES

- SEE CONDUCTOR CHART, PENNANT NOTE 1.
- SEE CONDUCTOR CHART, PENNANT NOTE 2.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
- SPIRALLING OF THE MARKING IS ALLOWED.
- IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900980 |
| SCALE - NONE | REV LTR A | SHEET 2 OF 13 |

G11 CABLE W53 C 1900980

PENNANT NOTE

GENERAL NOTES

- A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE
Y - WHITE WITH YELLOW TRACER
- ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR.
- SEAL ZIPPER TUBING PER ND1002153
- SERIALIZE PER ND1002023
- ITEM 23 FURNISHED WITH ITEM 5.
- ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT.
- SEE NOTE 10 AND 16

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900980 |
| SCALE - NONE | REV LTR C | SHEET 3 OF 13 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 25663 DATE 1/7/64

| APPLICATION | REVISIONS | DATE | APPROVAL |
|-------------------|---|-----------|----------|
| NEXT ASST 1901308 | SYN A | 17 FEB 64 | T.B. |
| DESCRIPTION | CHANGE IN ACCORDANCE WITH CM-193765 TDR 2 | 09030 | |
| SYN B | CHANGE IN ACCORDANCE WITH CM-195637 TDR 3 | 17 MAR 64 | R.P. |
| SYN C | CHANGE IN ACCORDANCE WITH CM-197555 TDR 2 | 27 MAY 64 | R.B. |
| | REVISED CUSTOMER DATA 12-64 | | M.E.M. |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DATE 1/7/64

APPROVAL

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS9-437

SCALE NONE

SHEET 1 OF 13

G11 CABLE W53 A 1900980

PENNANT NOTE

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD |
|--|---------------|-----------|--------------|-----------|------------|
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | + .50-.50 | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900980 |
| SCALE - NONE | REV LTR A | SHEET 4 OF 13 |

| PENNANT | | LIST OF MATERIALS | | |
|---------|----------|-------------------|---|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 1 1 | 1900980-001 | WIRE ND1002181 TYPE 3, CLASS 4, WHITE JACKET 22AWG WHT/RED, WHT/BLU, WHT/YEL 48 FT TOT. LG | |
| | 2 1 | 1900980-002 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/RED, WHT/BLU 176 FT TOTAL LENGTH | |
| | 3 1 | 1900980-003 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT 64 FT TOTAL LENGTH | |
| | 4 1 | 1900980-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT 75 FT TOTAL LENGTH | |
| | 5 1 | MS3126F24-61PW | (1897047-611) CONNECTOR, PLUG | |
| 22 | 6 1 | 1010411-002 | CONNECTOR, PLUG | |
| 10 | 7 4 | 1000243-003 | FERRULE, ELEC COND | |
| 10 | 8 4 | 1000242-002 | FERRULE, ELEC COND | |
| 10 | 9 11 | 1000243-008 | FERRULE, ELEC COND | |
| 10 | 10 11 | 1000242-007 | FERRULE, ELEC COND | |
| 10 | 11 3 | 1000243-011 | FERRULE, ELEC COND | |
| 10 | 12 3 | 1000242-011 | FERRULE, ELEC COND | |
| 10 | 13 26 | 1010490-198 | INSULATION, SLEEVING ELEC | |
| 10 | 14 6 | 1010490-196 | INSULATION, SLEEVING ELEC | |
| 10 | 15 4 | 1010490-200 | INSULATION, SLEEVING ELEC | |
| 10 | 16 3 | 1010490-258 | INSULATION, SLEEVING ELEC | |

| | | |
|--|---------------------------------|------------------------------|
| <small>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</small> | <small>SIZE</small> A | 1900980 |
| <small>SCALE: NONE</small> | <small>REV LTR</small> C | <small>SHEET 5 OF 13</small> |

| PENNANT | | LIST OF MATERIALS | |
|---------|----------|----------------------------------|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 10 | 17 2 | 1016128-041 | BAND IDENTIFICATION |
| 10 | 18 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 19 3 | 1016006-002 | SPLICE REDUCER |
| | 20 1 | 1900980-005 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE 1 IN. DIA 16 FT TOTAL LENGTH |
| | 21 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 22 108 | 1010464-002 | CONTACT, SOCKET |
| 20 | 23 | | CONTACT PIN |
| 21 | 24 AR | 1897147-104,-106,-108,-112,-116, | CABLE CLAMP SLEEVE |
| | 25 1 | 1016282-024 | RUBBER GROMMET |
| 10 | 26 1 | 1015902- 46 | TERMINAL LUG |
| | 27 1 | 1900980-006 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH |

| | | |
|--|---------------|------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900980 |
| SCALE - NONE | REV LTR C | SHEET 6 OF |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|---------------------|----------|--|---------|---------------------|-----|------|----|---------------------|-----|----|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | |
| STEP WIRE OR JACKET | | | | STEP WIRE OR JACKET | | | | STEP WIRE OR JACKET | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | ITEM NO. | | | ITEM NO. | | | | ITEM NO. | | | |
| A 1 | 4 | | P1-A* | 19N | 23 | | | P2- 30 | 10N | | |
| A 2 | 3 | | | 230 | 200 | 7 | 8 | 5 | | | |
| | | | | | | A 13 | | | | | |
| A 2A | 4 | | SHLD A2 | 25N | | | | E1 | 25N | | |
| A 2W | | | P1-B* | 19N | 23 | | | P2- 12 | 10N | 22 | |
| A 3 | 2 | | | 230 | 200 | 9 | 10 | 5 | | | |
| | | | | | | A 13 | | | | | |
| A 3A | 4 | | SHLD A3 | 25N | | | | E1 | 25N | | |
| A 3L | | | P1-D* | 19N | 23 | | | P2- 14 | 10N | 22 | |
| A 3R | | | P1-C* | 19N | 23 | | | P2- 1 | 10N | 22 | |
| A 4 | 2 | | | 230 | 200 | 9 | 10 | 5 | | | |
| | | | | | | A 13 | | | | | |
| A 4A | 4 | | SHLD A4 | 25N | | | | E1 | 25N | | |
| A 4L | | | P1-F* | 19N | 23 | | | P2- 57 | 10N | 22 | |
| A 4R | | | P1-E* | 19N | 23 | | | P2- 67 | 10N | 22 | |
| A 5 | 2 | | | 230 | 200 | 9 | 10 | 5 | | | |
| | | | | | | A 13 | | | | | |
| A 5A | 4 | | SHLD A5 | 25N | | | | E1 | 25N | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

SCALE - NONE REV LTR A

1900980

SHEET 7 OF 1

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|---------------|-------------------|---------------------|--------------------|----------|-------------------|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | | | |
| A 5L | | P1-H* | 19N | 23 | | P2- 45 | 10N | 22 | | | |
| A 5R | | P1-G* | 19N | 23 | | P2- 35 | 10N | 22 | | | |
| A 6 | 3 | | 28Q | 25Q | 7 | 8 | 5 | | | | |
| | | | | A 13 | | | | | | | |
| A 6A | 4 | SHLD A6 | 25N | | | E1 | 25N | | | | |
| A 6W | | P1-I* | 19N | 23 | | P2- 34 | 10N | 22 | | | |
| A 7 | 2 | | 28Q | 25Q | 9 | 10 | 5 | | | | |
| | | | | A 13 | | | | | | | |
| A 7A | 4 | SHLD A7 | 25N | | | E1 | 25N | | | | |
| A 7L | | P1-K* | 19N | 23 | | P2- 6 | 10N | 22 | | | |
| A 7R | | P1-J* | 19N | 23 | | P2- 20 | 10N | 22 | | | |
| A 8 | 2 | | 28Q | 25Q | 9 | 10 | 5 | | | | |
| | | | | A 13 | | | | | | | |
| A 8A | 4 | SHLD A8 | 25N | | | E2 | 25N | | | | |
| A 8L | | P1-N* | 19N | 23 | | P2- 7 | 10N | 22 | | | |
| A 8R | | P1-M* | 19N | 23 | | P2- 21 | 10N | 22 | | | |
| A 9 | 2 | | 28Q | 25Q | 9 | 10 | 5 | | | | |
| | | | | A 13 | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

1900980

REV LTR
A

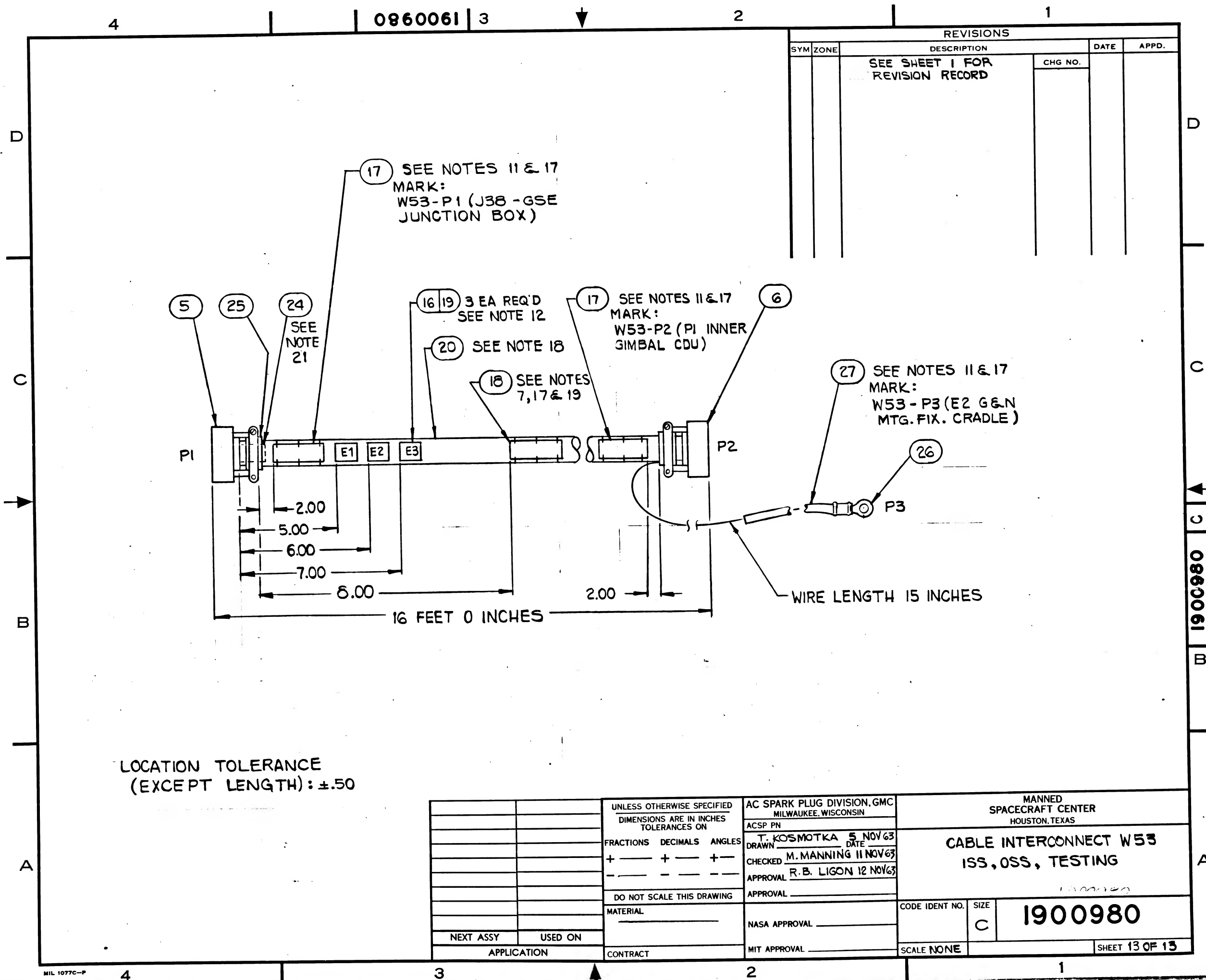
SHEET 8 OF

| G11 CABLE W53 B 1900980 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|---|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 9A | 4 | SHLD A9 | 25N | | | E2 | 25N | | |
| A 9L | | P1-Q* | 19N | 23 | | P2- 90 | 10N | 22 | |
| A 9R | | P1-P* | 19N | 23 | | P2-104 | 10N | 22 | |
| A 10 | 2 | | 330 300 | 9 10 | 5 | | 330 300 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 10A | 4 | SHLD A10 | 25N | | | E2 | 25N | | |
| A 10L | | P1-S* | 19N | 23 | | P2- 86 | 10N | 22 | |
| A 10R | | P1-R* | 19N | 23 | | P2-100 | 10N | 22 | |
| A 11 | 2 | | 330 300 | 9 10 | 5 | | 330 300 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 11A | 4 | SHLD A11 | 25N | | | E2 | 25N | | |
| A 11L | | P1-U* | 19N | 23 | | P2- 87 | 10N | 22 | |
| A 11R | | P1-T* | 19N | 23 | | P2-101 | 10N | 22 | |
| A 12 | 1 | | 330 300 | 11 12 | 5 | | 330 300 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 12A | 4 | SHLD A12 | 25N | | | P1-C | 19N | | |
| A 12L | | P1-W* | 19N | 23 | | P2-108 | 10N | 22 | |
| A 12R | | P1-V* | 19N | 23 | | P2-107 | 10N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR B SHEET 9 OF 13 | | | |

| G11 CABLE W53 A 1900980 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 12Y | | P1-X* | 19N | 23 | | P2- 94 | 10N | 22 | |
| A 13 | 2 | | 330 300 | 9 10 | 5 | | 330 300 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 13A | 4 | SHLD A13 | 25N | | | E2 | 25N | | |
| A 13L | | P1-Z* | 19N | 23 | | P2- 50 | 10N | 22 | |
| A 13R | | P1-Y* | 19N | 23 | | P2- 60 | 10N | 22 | |
| A 14 | 4 | P1-AA | 19N | 23 | | P2- 16 | 10N | 22 | |
| A 15 | 2 | | 380 350 | 9 10 | 5 | | 380 350 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 15A | 4 | SHLD A15 | 25N | | | E3 | 25N | | |
| A 15L | | P1-CC | 19N | 23 | | P2- 2 | 10N | | |
| A 15R | | P1-BB | 19N | 23 | | P2- 3 | 10N | | |
| A 16 | 1 | | 380 350 | 11 12 | 5 | | 380 350 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 16A | 4 | SHLD A16 | 25N | | | E3 | 25N | | |
| A 16L | | P1-FF | 19N | 23 | | P2-105 | 10N | 22 | |
| A 16R | | P1-EE | 19N | 23 | | P2- 92 | 10N | 22 | |
| A 16Y | | P1-GG | 19N | 23 | | P2-106 | 10N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR A SHEET 10 OF 13 | | | |

| G11 CABLE W53 C 1900980 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 17 | 1 | | 380 350 | 11 12 | 5 | | 380 350 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 17A | 4 | SHLD A17 | 25N | | | E3 | 25N | | |
| A 17L | | P1-JJ | 19N | 23 | | P2- 31 | 10N | 22 | |
| A 17R | | P1-MM | 19N | 23 | | P2- 32 | 10N | 22 | |
| A 17Y | | P1-KK | 19N | 23 | | P2- 43 | 10N | 22 | |
| A 18 | 2 | | 380 350 | 9 10 | 5 | | 380 350 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 18A | 4 | SHLD A18 | 25N | | | E3 | 25N | | |
| A 18L | | P1-MM | 19N | 23 | | P2- 29 | 10N | 22 | |
| A 18R | | P1-LL | 19N | 23 | | P2- 28 | 10N | 22 | |
| A 19 | 4 | P3- 1 | 25N | 24 | | P2- 41 | 10N | 22 | |
| A 19L | | DELETED | | | | | | | |
| A 20 | 3 | | 430 400 | 7 8 | 5 | | 430 400 | A 15 | 7A |
| | | | | A 15 | | | | | |
| A 20A | 4 | SHLD A20 | 25N | | | E3 | 25N | | |
| A 20L | | P1-NN | 19N | 23 | | P2- 11 | 10N | 22 | |
| A 21 | 3 | | 430 400 | 7 8 | 5 | | 430 400 | A 15 | 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR C SHEET 11 OF 13 | | | |

| G11 CABLE W53 A 1900980 | | | | | | | | | |
|---|----------|----------------------|---------------|-------------|-----|--|---------------|-------------|-----|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| | | | | A 13 | | | | | |
| A 21A | 4 | SHLD A21 | 25N | | | E3 | 25N | | |
| A 21L | | P1-PP | 19N | 23 | | P2- 25 | 10N | 22 | |
| A 22 | 4 | P1-B | 19N | 23 | | E1 | 25N | | |
| A 23 | 4 | E2 | 25N | | | E1 | 25N | | |
| A 24 | 4 | E3 | 25N | | | E2 | 25N | | |
| A 25 | 4 | P1-DD | 19N | 23 | | P2- 15 | 10N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR A SHEET 12 OF 13 | | | |



| G11 | CABLE W53 | D | 1900980 |
|-----------------|---|---|---------|
| PENNANT NOTE | GENERAL NOTES | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |

| | | |
|--|---------------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900980 |
| SCALE-NONE | REV LTR | D |
| | | SHEET 2 OF 13 |

| GII | CABLE W53 | C | 1900980 |
|---------|---|---|---------|
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 5. | | |
| 21 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| 22 | SEE NOTE 10 AND 16 | | |

| | | |
|--|---------------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900980 |
| SCALE - NONE | REV LTR | C |
| | | SHEET 3 OF 13 |

[illegible]

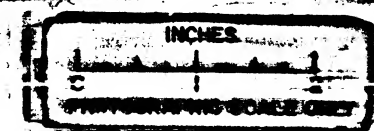
| PENNANT | GENERAL NOTES |
|--|--|
| NOTE | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE |
| | WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD |
| UNDER 1 INCH | + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 +.50-.50 +.50-.50 +.50-.50 |
| OVER 6 FEET | +2.00-.00 |

| G11 | | CABLE W53 | | C | | 1900980 | |
|---------|------|---|---------------------------------|---|--|---------------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 10 | 17 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| 10 | 18 | 1 | 1016128-011 | BAND IDENTIFICATION | | | |
| 10 | 19 | 3 | 1016006-002 | SPlice REDUCER | | | |
| | 20 | 1 | 1900980-005 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE 1 IN. DIA 16 FT TOTAL LENGTH | | | |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 22 | 108 | 1010464-002 | CONTACT, SOCKET | | | |
| 20 | 23 | | | CONTACT PIN | | | |
| 21 | 24 | AR | 1897147-104,-106,-108,-112,-116 | CABLE CLAMP SLEEVE | | | |
| | 25 | 1 | 1016282-024 | RUBBER GROMMET | | | |
| 10 | 26 | 1 | 1015902- 46 | TERMINAL LUG | | | |
| | 27 | 1 | 1900980-006 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900980 | |
| | | SCALE - NONE | | REV LTR C | | SHEET 6 OF 13 | |

| G11 | | CABLE W53 | | A | | 1900980 | |
|-------------------|----------|--|------------------|-----------|----------------------|------------------|----------|
| CONDUCTOR | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. |
| A 5L | | P1-H* | 19N | 23 | P2- 45 | 10N | 22 |
| A 5R | | P1-G* | 19N | 23 | P2- 35 | 10N | 22 |
| A 6 | 3 | | 280 | 250 | 7 | 8 | 5 |
| | | | | | A 13 | | |
| A 6A | 4 | SHLD A6 | 25N | | E1 | 25N | |
| A 6W | | P1-I* | 19N | 23 | P2- 34 | 10N | 22 |
| A 7 | 2 | | 280 | 250 | 9 | 10 | 5 |
| | | | | | A 13 | | |
| A 7A | 4 | SHLD A7 | 25N | | E1 | 25N | |
| A 7L | | P1-K* | 19N | 23 | P2- 6 | 10N | 22 |
| A 7R | | P1-J* | 19N | 23 | P2- 20 | 10N | 22 |
| A 8 | 2 | | 280 | 250 | 9 | 10 | 5 |
| | | | | | A 13 | | |
| A 8A | 4 | SHLD A8 | 25N | | E2 | 25N | |
| A 8L | | P1-N* | 19N | 23 | P2- 7 | 10N | 22 |
| A 8R | | P1-M* | 19N | 23 | P2- 21 | 10N | 22 |
| A 9 | 2 | | 280 | 250 | 9 | 10 | 5 |
| | | | | | A 13 | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900980 | |
| | | SCALE - NONE | | REV LTR A | | SHEET 8 OF 13 | |

| G11 | | CABLE W53 | | C | | 1900980 | |
|---------|------|---|------------------------------|--|--|---------------|--|
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900980-001 | WIRE ND1002181 TYPE 3, CLASS 4, WHITE JACKET 22AWG WHT/RED, WHT/BLU, WHT/YEL 48 FT TOT. LG | | | |
| | 2 | 1 | 1900980-002 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/RED, WHT/BLU 176 FT TOTAL LENGTH | | | |
| | 3 | 1 | 1900980-003 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT 64 FT TOTAL LENGTH | | | |
| | 4 | 1 | 1900980-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT 75 FT TOTAL LENGTH | | | |
| | 5 | 1 | MS3126F24-61PW (1897047-611) | CONNECTOR, PLUG | | | |
| 22 | 6 | 1 | 1010411-002 | CONNECTOR, PLUG | | | |
| 10 | 7 | 4 | 1000243-003 | FERRULE, ELEC COND | | | |
| 10 | 8 | 4 | 1000242-002 | FERRULE, ELEC COND | | | |
| 10 | 9 | 11 | 1000243-008 | FERRULE, ELEC COND | | | |
| 10 | 10 | 11 | 1000242-007 | FERRULE, ELEC COND | | | |
| 10 | 11 | 3 | 1000243-011 | FERRULE, ELEC COND | | | |
| 10 | 12 | 3 | 1000242-011 | FERRULE, ELEC COND | | | |
| 10 | 13 | 26 | 1010490-198 | INSULATION, SLEEVING ELEC | | | |
| 10 | 14 | 6 | 1010490-196 | INSULATION, SLEEVING ELEC | | | |
| 10 | 15 | 4 | 1010490-200 | INSULATION, SLEEVING ELEC | | | |
| 10 | 16 | 3 | 1010490-258 | INSULATION, SLEEVING ELEC | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900980 | |
| | | SCALE - NONE | | REV LTR C | | SHEET 5 OF 13 | |

| G11 | | CABLE W53 | | A | | 1900980 | |
|-------------------|----------|--|------------------|-----------|----------------------|------------------|----------|
| CONDUCTOR | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. |
| A 5L | | P1-H* | 19N | 23 | P2- 45 | 10N | 22 |
| A 5R | | P1-G* | 19N | 23 | P2- 35 | 10N | 22 |
| A 6 | 3 | | 280 | 250 | 7 | 8 | 5 |
| | | | | | A 13 | | |
| A 6A | 4 | SHLD A6 | 25N | | E1 | 25N | |
| A 6W | | P1-I* | 19N | 23 | P2- 34 | 10N | 22 |
| A 7 | 2 | | 280 | 250 | 9 | 10 | 5 |
| | | | | | A 13 | | |
| A 7A | 4 | SHLD A7 | 25N | | E1 | 25N | |
| A 7L | | P1-K* | 19N | 23 | P2- 6 | 10N | 22 |
| A 7R | | P1-J* | 19N | 23 | P2- 20 | 10N | 22 |
| A 8 | 2 | | 280 | 250 | 9 | 10 | 5 |
| | | | | | A 13 | | |
| A 8A | 4 | SHLD A8 | 25N | | E2 | 25N | |
| A 8L | | P1-N* | 19N | 23 | P2- 7 | 10N | 22 |
| A 8R | | P1-M* | 19N | 23 | P2- 21 | 10N | 22 |
| A 9 | 2 | | 280 | 250 | 9 | 10 | 5 |
| | | | | | A 13 | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900980 | |
| | | SCALE - NONE | | REV LTR A | | SHEET 8 OF 13 | |



| CONDUCTOR | | | | FROM | | | | | | | | TO | | | | | | | | | | | | |
|---|---|---|--|----------------------|--|-----|-----|-------------------|----|----------|--|--|--|---------------|---------|-------------------|----|---------------|--|----------|--|-----|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | | | | |
| ITEM NO. | | 2 | | STRIP WIRE OR JACKET | | 3 | | T N | | 3 | | STRIP WIRE OR JACKET | | T N | | 3 | | ITEM NO. | | 1 | | NO. | | |
| NUMBER | | | | CIRCUIT POINT | | 3 | | | | ITEM NO. | | | | CIRCUIT POINT | | 3 | | | | ITEM NO. | | | | |
| A 12Y | | | | P1-X* | | 19N | | 23 | | | | P2- 94 | | 10N | | 22 | | | | | | | | |
| A 13 | 2 | | | | | 330 | 300 | 9 | 10 | 5 | | | | 330 | 300 | A 13 | 7A | | | | | | | |
| | | | | | | | | A 13 | | | | | | | | | | | | | | | | |
| A 13A | 4 | | | SHLD A13 | | 25N | | | | | | E2 | | 25N | | | | | | | | | | |
| A 13L | | | | P1-Z* | | 19N | | 23 | | | | P2- 50 | | 10N | | 22 | | | | | | | | |
| A 13R | | | | P1-Y* | | 19N | | 23 | | | | P2- 60 | | 10N | | 22 | | | | | | | | |
| A 14 | 4 | | | P1-AA | | 19N | | 23 | | | | P2- 16 | | 10N | | 22 | | | | | | | | |
| A 15 | 2 | | | | | 380 | 350 | 9 | 10 | 5 | | | | 380 | 350 | A 13 | 7A | | | | | | | |
| | | | | | | | | A 13 | | | | | | | | | | | | | | | | |
| A 15A | 4 | | | SHLD A15 | | 25N | | | | | | E3 | | 25N | | | | | | | | | | |
| A 15L | | | | P1-CC | | 19N | | 23 | | | | P2- 2 | | 10N | | | | | | | | | | |
| A 15R | | | | P1-BB | | 19N | | 23 | | | | P2- 3 | | 10N | | | | | | | | | | |
| A 16 | 1 | | | | | 380 | 350 | 11 | 12 | 5 | | | | 380 | 350 | A 14 | 7A | | | | | | | |
| | | | | | | | | A 14 | | | | | | | | | | | | | | | | |
| A 16A | 4 | | | SHLD A16 | | 25N | | | | | | E3 | | 25N | | | | | | | | | | |
| A 16L | | | | P1-FF | | 19N | | 23 | | | | P2-105 | | 10N | | 22 | | | | | | | | |
| A 16R | | | | P1-EE | | 19N | | 23 | | | | P2- 92 | | 10N | | 22 | | | | | | | | |
| A 16Y | | | | P1-GG | | 19N | | 23 | | | | P2-106 | | 10N | | 22 | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900980 | | | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR | | A | | SHEET 10 OF 1 | | | | | | |

MIL 2088 - 2-65 WIR

| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|---|---|--|----------------------|--|---------|-----|----------|-------------------|---|--------|--|-----|--------------------|---------|----------------|--|-------------------|--|-----|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | |
| ITEM NO. | | 2 | | STRIP WIRE OR JACKET | | T 1 N 2 | | ITEM NO. | | 1 | | STRIP WIRE OR JACKET | | T 1 N 2 | | ITEM NO. | | 1 | | NO. | | | |
| NUMBER | | | | CIRCUIT POINT | | 2 | | | | | | CIRCUIT POINT | | 2 | | | | | | | | | |
| A 17 | 1 | | | | | 380 | 350 | 11 | 12 | 5 | | | 380 | 350 | A 14 | 7A | | | | | | | |
| | | | | | | | | | A 14 | | | | | | | | | | | | | | |
| A 17A | 4 | | | SHLD A17 | | 25N | | | | | E3 | | 25N | | | | | | | | | | |
| A 17L | | | | P1-JJ | | 19N | | 23 | | | P2- 31 | | 10N | | 22 | | | | | | | | |
| A 17R | | | | P1-MH | | 19N | | 23 | | | P2- 32 | | 10N | | 22 | | | | | | | | |
| A 17Y | | | | P1-KK | | 19N | | 23 | | | P2- 43 | | 10N | | 22 | | | | | | | | |
| A 18 | 2 | | | | | 380 | 350 | 9 | 10 | 5 | | | 380 | 350 | A 13 | 7A | | | | | | | |
| | | | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 18A | 4 | | | SHLD A18 | | 25N | | | | | E3 | | 25N | | | | | | | | | | |
| A 18L | | | | P1-MM | | 19N | | 23 | | | P2- 29 | | 10N | | 22 | | | | | | | | |
| A 18R | | | | P1-LL | | 19N | | 23 | | | P2- 28 | | 10N | | 22 | | | | | | | | |
| A 19 | 4 | | | P3- 1 | | 25N | | 26 | | | P2- 41 | | 10N | | 22 | | | | | | | | |
| A 19L | | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 20 | 3 | | | | | 430 | 400 | 7 | 8 | 5 | | | 430 | 400 | A 15 | 7A | | | | | | | |
| | | | | | | | | | A 15 | | | | | | | | | | | | | | |
| A 20A | 4 | | | SHLD A20 | | 25N | | | | | E3 | | 25N | | | | | | | | | | |
| A 20W | | | | P1-NN | | 19N | | 23 | | | P2- 11 | | 10N | | 22 | | | | | | | | |
| A 21 | 3 | | | | | 430 | 400 | 7 | 8 | 5 | | | 430 | 400 | A 15 | 7A | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900980 | | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR C | | SHEET 11 OF 13 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

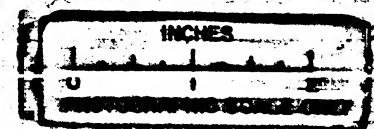
MIL 2088 - 2-65 WIR

| CONDUCTOR | | | | FROM | | | | | | | | TO | | | | | | | |
|---|-----|-----|--------------------|----------------------|-----|---------------|-------------|----------|---|--|--------------------|---------------|------|---------------|-------------|---|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | |
| ITEM | | NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | | | | |
| NUMBER | NO. | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | |
| A 9A | 4 | | | SHLD A9 | 25N | | | | | E2 | 25N | | | | | | | | |
| A 9L | | | | P1-Q* | 19N | 23 | | | | P2- 90 | 10N | 22 | | | | | | | |
| A 9R | | | | P1-P* | 19N | 23 | | | | P2-104 | 10N | 22 | | | | | | | |
| A 10 | 2 | | | | 330 | 300 | 9 | 10 | 5 | | 330 | 300 | A 13 | 7A | | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | |
| A 10A | 4 | | | SHLD A10 | 25N | | | | | E2 | 25N | | | | | | | | |
| A 10L | | | | P1-S* | 19N | 23 | | | | P2- 86 | 10N | 22 | | | | | | | |
| A 10R | | | | P1-R* | 19N | 23 | | | | P2-100 | 10N | 22 | | | | | | | |
| A 11 | 2 | | | | 330 | 300 | 9 | 10 | 5 | | 330 | 300 | A 13 | 7A | | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | |
| A 11A | 4 | | | SHLD A11 | 25N | | | | | E2 | 25N | | | | | | | | |
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MIL 2088 - 2-65 WIR



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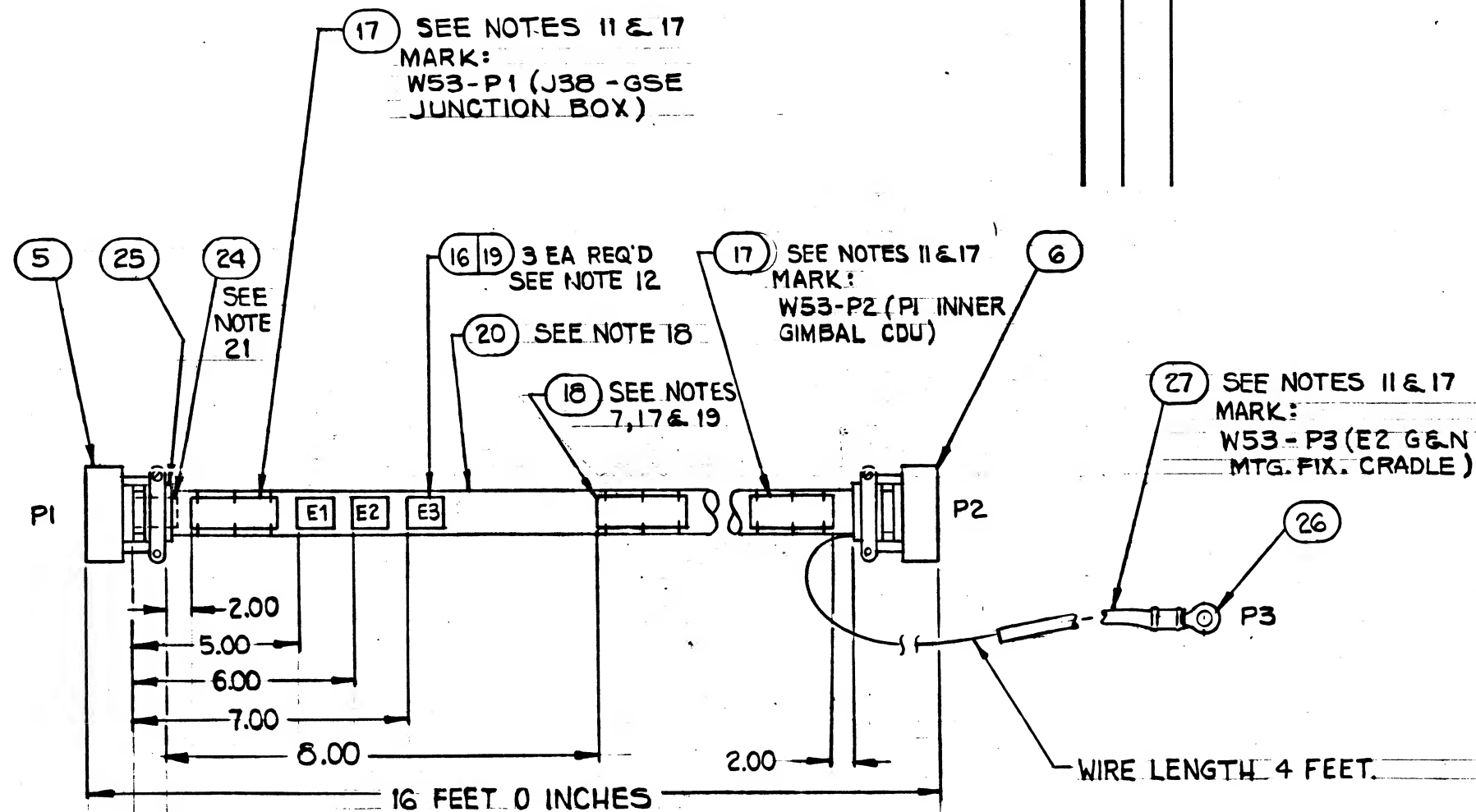
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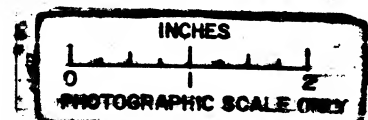
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LOCATION TOLERANCE
(EXCEPT LENGTH): $\pm .50$

| | | | | | | |
|-------------------|--|---|---|--|---|----------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | T. KOSMOTKA 5 NOV 63 DATE | | CABLE INTERCONNECT W53 | |
| | | + - - - - + - - - - + - - - - | DRAWN M. MANNING 11 NOV 63 | | ISS, OSS, TESTING | |
| | | DO NOT SCALE THIS DRAWING | CHECKED R. B. LIGON 12 NOV 63 | | | |
| | | MATERIAL | APPROVAL <i>[Signature]</i> 9/12/64 | | | |
| NEXT ASSY USED ON | | | NASA APPROVAL <i>[Signature]</i> 9/12/64 | | CODE IDENT NO. SIZE | 1900980 |
| APPLICATION | | CONTRACT NAS 9-497 | MIT APPROVAL <i>[Signature]</i> 9/12/64 | | SCALE NONE | SHEET 13 OF 15 |



[illegible]

| LIST OF MATERIAL | | | | |
|------------------|------|-------|---|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 18 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 19 | 3 | 1016006-002 | SPLICE REDUCER |
| | 20 | 1 | 1900980-005 | ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC FLEXIBLE 5/8 DIA 16 FT TOTAL LENGTH |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 22 | 108 | 1010464-2 | CONTACT, SOCKET |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A 1900980 |
| | | | SCALE - NONE | REV LTR + SHEET 6 OF 13 |

MIL 2084 4-63

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|----------------------|---|-------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| | | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| A 1 | 4 | P1-A* | 22N | P2- 30 | 22N |
| A 2 | 3 | | 230 200 A 15 7A | 230 200 7 8 5 | |
| | | | | A 13 | |
| A 2A | 4 | SHLD A2 | 37N | E1 | 37N |
| A 2W | | P1-B* | 22N | P2- 12 | 22N |
| A 3 | 2 | | 230 200 A 13 7A | 230 200 9 10 5 | |
| | | | | A 13 | |
| A 3A | 4 | SHLD A3 | 37N | E1 | 37N |
| A 3L | | P1-D* | 22N | P2- 14 | 22N |
| A 3R | | P1-C* | 22N | P2- 1 | 22N |
| A 4 | 2 | | 230 200 A 13 7A | 230 200 9 10 5 | |
| | | | | A 13 | |
| A 4A | 4 | SHLD A4 | 37N | E1 | 37N |
| A 4L | | P1-F* | 22N | P2- 57 | 22N |
| A 4R | | P1-E* | 22N | P2- 67 | 22N |
| A 5 | 2 | | 230 200 A 13 7A | 230 200 9 10 5 | |
| | | | | A 13 | |
| A 5A | 4 | SHLD A5 | 37N | E1 | 37N |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A 1900980 | |
| | | | SCALE - NONE | REV LTR + SHEET 7 OF 13 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 4-63 WIR

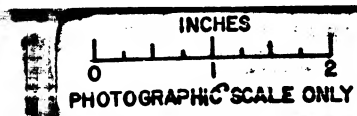
| LIST OF MATERIAL | | | | |
|------------------|------|-------|---|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900980-001 | WIRE ND 1002181 TYPE 3, CLASS 4, WHITE JACKET 22 AWG WHT/RED,WHT/BLU,WHT/YEL 48 FT. TOTAL LENGTH |
| | 2 | 1 | 1900980-002 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JACKET 22 AWG WHT/RED,WHT/BLU 176 FT TOTAL LENGTH |
| | 3 | 1 | 1900980-003 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JACKET 22 AWG WHT 64 FT TOTAL LENGTH |
| | 4 | 1 | 1900980-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG WHT 75 FT TOTAL LENGTH |
| 10 | 5 | 1 | MS3126F24-61PW | (1897047-611) CONNECTOR, PLUG |
| 16 | 6 | 1 | 1010411-2 | CONNECTOR, PLUG |
| 10 | 7 | 4 | 1000243-003 | FERRULE, ELEC COND |
| 10 | 8 | 4 | 1000242-002 | FERRULE, ELEC COND |
| 10 | 9 | 11 | 1000243-008 | FERRULE, ELEC COND |
| 10 | 10 | 11 | 1000242-007 | FERRULE, ELEC COND |
| 10 | 11 | 3 | 1000243-011 | FERRULE, ELEC COND |
| 10 | 12 | 3 | 1000242-011 | FERRULE, ELEC COND |
| 10 | 13 | 26 | 1010490-198 | INSULATION, SLEEVING ELEC |
| 10 | 14 | 6 | 1010490-196 | INSULATION, SLEEVING ELEC |
| 10 | 15 | 4 | 1010490-200 | INSULATION, SLEEVING ELEC |
| 10 | 16 | 3 | 1010490-258 | INSULATION, SLEEVING ELEC |
| 10 | 17 | 2 | 1016128-041 | BAND IDENTIFICATION |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A 1900980 |
| | | | SCALE - NONE | REV LTR + SHEET 5 OF 13 |

MIL 2084 4-63

| CONDUCTOR | | FROM | | TO | |
|-------------------|----------|----------------------|---|-------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | NO. | STRIP WIRE OR JACKET | NO. |
| | | CIRCUIT POINT | ITEM NO. | CIRCUIT POINT | ITEM NO. |
| A 5L | | P1-H* | 22N | P2- 45 | 22N |
| A 5R | | P1-G* | 22N | P2- 35 | 22N |
| A 6 | 3 | | 280 250 A 15 7A | 280 250 7 8 5 | |
| | | | | A 13 | |
| A 6A | 4 | SHLD A6 | 37N | E1 | 37 |
| A 6W | | P1-I* | 22N | P2- 34 | 22 |
| A 7 | 2 | | 280 250 A 13 7A | 280 250 9 10 5 | |
| | | | | A 13 | |
| A 7A | 4 | SHLD A7 | 37N | E1 | 37N |
| A 7L | | P1-K* | 22N | P2- 6 | 22N |
| A 7R | | P1-J* | 22N | P2- 20 | 22N |
| A 8 | 2 | | 280 250 A 13 7A | 280 250 9 10 5 | |
| | | | | A 13 | |
| A 8A | 4 | SHLD A8 | 37N | E2 | 37N |
| A 8L | | P1-N* | 22N | P2- 7 | 22N |
| A 8R | | P1-M* | 22N | P2- 21 | 22N |
| A 9 | 2 | | 280 250 A 13 7A | 280 250 9 10 5 | |
| | | | | A 13 | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A 1900980 | |
| | | | SCALE - NONE | REV LTR + SHEET 8 OF 13 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2085 4-63 WIR



| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----------|---|--|----------------------|---|-----|-----|-------------|----|----------|---|-----|--|----------------------|---|-----|-----|-------------|----|----------|---|-----|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | |
| | | | | STRIP WIRE OR JACKET | | | | SPEC. | | | | | | STRIP WIRE OR JACKET | | | | SPEC. | | | | | |
| NUMBER | ITEM NO. | 2 | | CIRCUIT POINT | 2 | T | I | N | 3 | ITEM NO. | 1 | NO. | | CIRCUIT POINT | 2 | T | I | N | 3 | ITEM NO. | 1 | NO. | |
| A 12Y | | | | P1-X* | | 22N | | | | | | | | P2- 94 | | 22N | | | | 22 | | | |
| A 13 | 2 | | | | | 330 | 300 | A 13 | 7A | | | | | | | 330 | 300 | 9 | 10 | 5 | | | |
| | | | | | | | | | | | | | | | | | | A 13 | | | | | |
| A 13A | 4 | | | SHLD A13 | | 37N | | | | | | | | E2 | | 37N | | | | | | | |
| A 13L | | | | P1-Z* | | 22N | | | | | | | | P2- 50 | | 22N | | | | 22 | | | |
| A 13R | | | | P1-Y* | | 22N | | | | | | | | P2- 60 | | 22N | | | | 22 | | | |
| A 14 | 4 | | | P1-AA | | 22N | | | | | | | | P2- 16 | | 22N | | | | 22 | | | |
| A 15 | 2 | | | | | 380 | 350 | A 13 | 7A | | | | | | | 380 | 350 | 9 | 10 | 5 | | | |
| | | | | | | | | | | | | | | | | | | A 13 | | | | | |
| A 15A | 4 | | | SHLD A15 | | 37N | | | | | | | | E3 | | 37N | | | | | | | |
| A 15L | | | | P1-CC | | 22N | | | | | | | | P2- 2 | | 22N | | | | | | | |
| A 15R | | | | P1-BB | | 22N | | | | | | | | P2- 3 | | 22N | | | | | | | |
| A 16 | 1 | | | | | 380 | 350 | A 14 | 7A | | | | | | | 380 | 350 | 11 | 12 | 5 | | | |
| | | | | | | | | | | | | | | | | | | A 14 | | | | | |
| A 16A | 4 | | | SHLD A16 | | 37N | | | | | | | | E3 | | 37N | | | | | | | |
| A 16L | | | | P1-FF | | 22N | | | | | | | | P2-105 | | 22N | | | | 22 | | | |
| A 16R | | | | P1-EE | | 22N | | | | | | | | P2- 92 | | 22N | | | | 22 | | | |
| A 16Y | | | | P1-GG | | 22N | | | | | | | | P2-106 | | 22N | | | | 22 | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

SCALE - NONE REV LTR +

1900980

SHEET 10 OF 11

| CONDUCTOR | | | | FROM | | | | TO | | | | | | | |
|---|----------|---------------|----------|----------------------|-----|-------------------|----------|--|-----|-------------------|-----|---------|---|----------------|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | | | |
| ITEM NO. | | CIRCUIT POINT | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | | | | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | ITEM NO. | TERMINATION SPEC. | NO. | CIRCUIT POINT | ITEM NO. | TERMINATION SPEC. | NO. | | | | | | |
| A 17 | 1 | | | 380 | 350 | A 14 | 7A | | | 380 | 350 | 11 12 | 5 | | |
| | | | | | | | | | | | | A 14 | | | |
| A 17A | 4 | SHLD A17 | | 37N | | | | E3 | | 37N | | | | | |
| A 17L | | P1-JJ | | 22N | | | | P2- 31 | | 22N | | 22 | | | |
| A 17R | | P1-HH | | 22N | | | | P2- 32 | | 22N | | 22 | | | |
| A 17Y | | P1-KK | | 22N | | | | P2- 43 | | 22N | | 22 | | | |
| A 18 | 2 | | | 380 | 350 | A 13 | 7A | | | 380 | 350 | 9 10 | 5 | | |
| | | | | | | | | | | | | A 13 | | | |
| A 18A | 4 | SHLD A18 | | 37N | | | | E3 | | 37N | | | | | |
| A 18L | | P1-MM | | 22N | | | | P2- 29 | | 22N | | 22 | | | |
| A 18R | | P1-LL | | 22N | | | | P2- 28 | | 22N | | 22 | | | |
| A 19 | 4 | P1-A | | 22N | | | | P2- 41 | | 22N | | 22 | | | |
| A 20 | 3 | | | 430 | 400 | A 15 | 7A | | | 430 | 400 | 7 8 | 5 | | |
| | | | | | | | | | | | | A 13 | | | |
| A 20A | 4 | SHLD A20 | | 37N | | | | E3 | | 37N | | | | | |
| A 20W | | P1-NN | | 22N | | | | P2- 11 | | 22N | | 22 | | | |
| A 21 | 3 | | | 430 | 400 | A 15 | 7A | | | 430 | 400 | 7 8 | 5 | | |
| | | | | | | | | | | | | A 13 | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900980 | | | |
| | | | | | | | | SCALE - NONE | | REV LTR | | + | | SHEET 11 OF 13 | |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|-----|---|--|----------------------|-----|-----|------|-----------------|-----|------|-----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | |
| ITEM NO. 2 | | | | STRIP WIRE OR JACKET | | | | SPEC. 1 | | | |
| CIRCUIT POINT 2 | | | | ITEM NO. 1 | | | | CIRCUIT POINT 2 | | | |
| NO. | | | | NO. | | | | NO. | | | |
| A | 9A | 4 | | SHLD A9 | 37N | | | E2 | 37N | | |
| A | 9L | | | P1-Q* | 22N | | | P2- 90 | 22N | 22 | |
| A | 9R | | | P1-P* | 22N | | | P2-104 | 22N | 22 | |
| A | 10 | 2 | | | 330 | 300 | A 13 | 7A | | 330 | 300 |
| | | | | | | | | | | 9 | 10 |
| | | | | | | | | | | A 13 | |
| A | 10A | 4 | | SHLD A10 | 37N | | | E2 | 37N | | |
| A | 10L | | | P1-S* | 22N | | | P2- 86 | 22N | 22 | |
| A | 10R | | | P1-R* | 22N | | | P2-100 | 22N | 22 | |
| A | 11 | 2 | | | 330 | 300 | A 13 | 7A | | 330 | 300 |
| | | | | | | | | | | 9 | 10 |
| | | | | | | | | | | A 13 | |
| A | 11A | 4 | | SHLD A11 | 37N | | | E2 | 37N | | |
| A | 11L | | | P1-U* | 22N | | | P2- 87 | 22N | 22 | |
| A | 11R | | | P1-T* | 22N | | | P2-101 | 22N | 22 | |
| A | 12 | 1 | | | 330 | 300 | A 14 | 7A | | 330 | 300 |
| | | | | | | | | | | 11 | 12 |
| | | | | | | | | | | A 14 | |
| A | 12A | 4 | | SHLD A12 | 37N | | | E2 | 37N | | |
| A | 12L | | | P1-W* | 22N | | | P2-108 | 22N | 22 | |
| A | 12R | | | P1-V* | 22N | | | P2-107 | 22N | 22 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

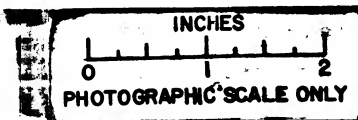
SIZE
A

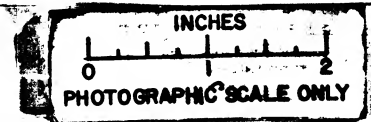
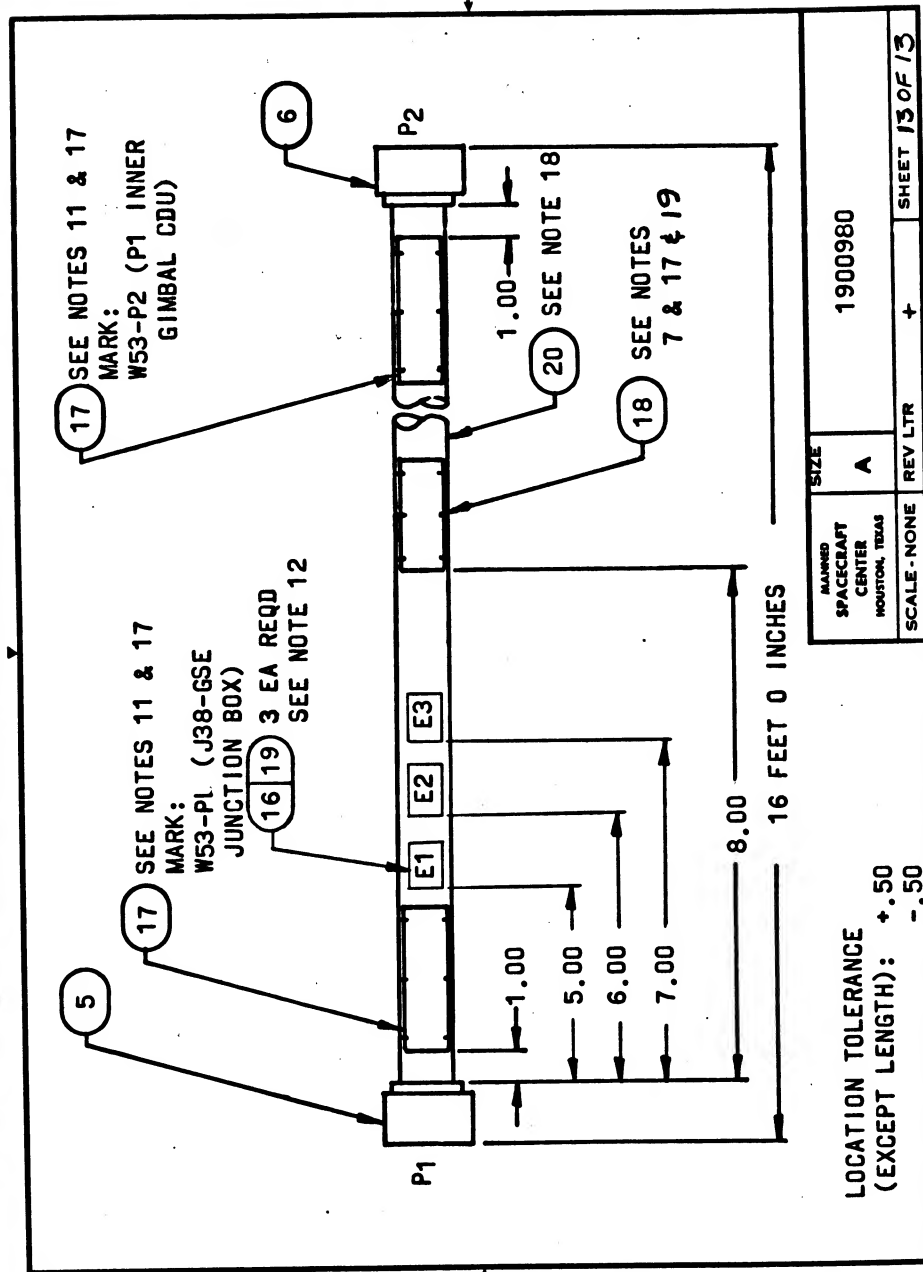
1900980

SCALE - NONE

REV LTR +

SHEET 9 OF 13

[illegible]



| | | | | | |
|--|-------------|------------------------------------|-------------------------------------|-------------------|----------|
| APPLICATION | | REVISIONS | | APPROVAL | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1001308 | 1000005-011 | A | CHANGE IN ACCORDANCE WITH CM-193766 | 1/7/63 | J.B. |
| <h1>FOR INFORMATION ONLY</h1> <p>CLASS B RELEASE TDR No. 05663 DATE 1/7/63</p> | | | | | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| ACSP PN | | CABLE INTERCONNECT W54 ISS TESTING | | REV A | |
| APPROVAL | | CODE IDENT NO. | | SIZE A | |
| NASA APPROVAL | | 1900986 | | SHEET 1 OF 15 | |
| MIT APPROVAL | | SCALE | | CONTRACT NAS9-497 | |

| | | | |
|----------------------------------|---|---------------|---------|
| PENNAINT | | GENERAL NOTES | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNAINT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNAINT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (55-2673). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TITLED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH, COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR Y IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| 14 | A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES | | |
| MANUFACTURED BY | | SIZE | 1900986 |
| SPACECRAFT CENTER HOUSTON, TEXAS | | A | |
| SCALE-NONE | | REV LTR | A |
| | | SHEET 2 OF 15 | |

| | | | |
|----------------------------------|--|---------------|---------|
| PENNAINT | | GENERAL NOTES | |
| NOTE | | | |
| 15 | THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 16 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. | | |
| 17 | A - FROM END SHIELD | | |
| 18 | L - WHITE WITH BLUE TRACER | | |
| 19 | R - WHITE WITH RED TRACER | | |
| 20 | W - WHITE | | |
| 21 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 22 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 23 | SEAL ZIPPER TUBING PER ND1002153. | | |
| 24 | SERIALIZE PER ND1002023. | | |
| 25 | ITEM 23 FURNISHED WITH ITEM 5. | | |
| 26 | ITEM 24 FURNISHED WITH ITEM 4. | | |
| 27 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| MANUFACTURED BY | | SIZE | 1900986 |
| SPACECRAFT CENTER HOUSTON, TEXAS | | A | |
| SCALE-NONE | | REV LTR | A |
| | | SHEET 3 OF 15 | |

| | | | |
|--|---------------|---------------|-----------------|
| PENNAINT | | GENERAL NOTES | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| | WIRE OR CABLE | STRIP JACKET | CUT WIRE SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 |
| 6 INCHES TO 6 FEET | + 1.00-.00 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | + 2.00-.00 | | |
| MANUFACTURED BY | | SIZE | 1900986 |
| SPACECRAFT CENTER HOUSTON, TEXAS | | A | |
| SCALE-NONE | | REV LTR | A |
| | | SHEET 4 OF 15 | |

| CABLE W-54 | | | | 1900986 | |
|-------------------|------|-----|------------------------------|--|---------------|
| LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | |
| | 1 | 1 | 1900986-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/BLU, WHT/RED 128 FT TOTAL LENGTH | |
| | 2 | 1 | 1900986-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT, 256 FT TOTAL LENGTH | |
| | 3 | 1 | 1900986-003 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT 528 FT TOTAL LENGTH | |
| | 4 | 1 | MS5126F22-55SM (1897046-551) | CONNECTOR PLUG | |
| | 5 | 1 | MS5126F22-55PX (1897049-552) | CONNECTOR PLUG | |
| 16 | 6 | 1 | 1010607-001 | CONNECTOR-PLUG | |
| 10 | 7 | 16 | 1000243-003 | FERRULE, ELEC COND | |
| 10 | 8 | 16 | 1000242-002 | FERRULE, ELEC COND | |
| 10 | 9 | 8 | 1000243-008 | FERRULE, ELEC COND | |
| 10 | 10 | 8 | 1000242-007 | FERRULE, ELEC COND | |
| 10 | 11 | 32 | 1010490-198 | INSULATION-SLEEVEING ELEC | |
| 10 | 12 | 16 | 1010490-200 | INSULATION-SLEEVEING ELEC | |
| 10 | 13 | 4 | 1010490-258 | INSULATION-SLEEVEING ELEC | |
| 10 | 14 | 4 | 1016006-002 | SPLICE REDUCER | |
| 10 | 15 | 3 | 1016128-041 | BAND-IDENTIFICATION | |
| 10 | 16 | 1 | 1016128-011 | BAND-IDENTIFICATION | |
| 10 | 17 | 1 | 1016184-002 | TRANSITION-HARNES, 2 FINGER (V) | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | | | SCALE-NONE | SHEET 5 OF 15 |

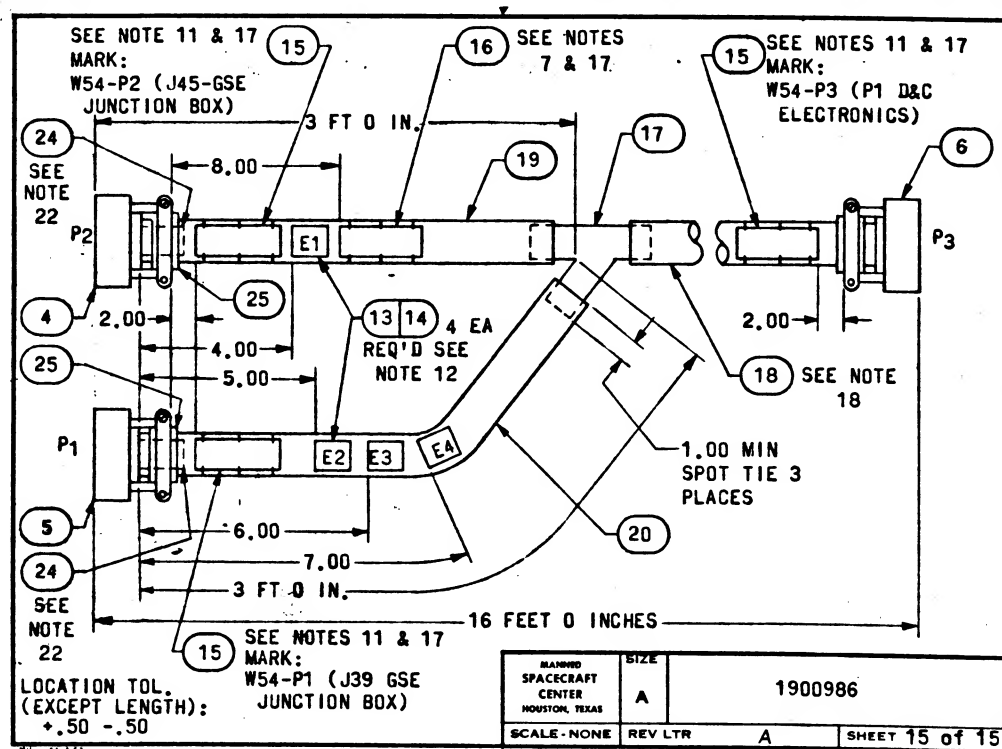
| CABLE W-54 | | | | 1900986 | |
|-------------------|------|-----|----------------------------|--|---------------|
| LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | |
| | 18 | 1 | 1900986-004 | ZIPPER TUBING ND1002158, TYPE 1, PLASTIC, FLEXIBLE 1 INCH DIA, 13 FT TOTAL LENGTH | |
| | 19 | 1 | 1900986-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 3/4 DIA 4 FT TOTAL LENGTH | |
| | 20 | 1 | 1900986-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA 4 FT TOTAL LENGTH | |
| | 21 | AR | NIL-T-713 | LACING TAPE TYPE B, CLASS 2, BLACK (ES-2732 NO. 18) | |
| 10 | 22 | 108 | 1010464-002 | CONTACT SOCKET | |
| 20 | 23 | | | CONTACT, PINS | |
| 22 | 24 | AR | 1897147-104, 106, 108, 112 | CABLE CLAMP SLEEVE | |
| | 25 | 2 | 1016282-022 | RUBBER GROMMET | |
| 21 | 26 | | | CONTACT, SOCKET | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | | | SCALE-NONE | SHEET 6 OF 15 |

| CABLE W-54 | | | | 1900986 | |
|-------------------|------|-----|---|--|---------------|
| CONDUCTOR | | | | | |
| INDIVIDUAL LENGTH | ITEM | QTY | FROM | TO | |
| NUMBER | NO | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC | NO. |
| A 1 | 3 | | P2-H* | 22N | 26 |
| A 2 | 3 | | P2-J* | 22N | 26 |
| A 3 | 2 | | | 23Q 20Q | 7 8 5 |
| | | | | | A 11 |
| A 3A | 3 | | SHLD A3 | 37N | |
| A 3H | | | P2-K* | 22N | 26 |
| A 4 | 2 | | | 23Q 20Q | 7 8 5 |
| | | | | | A 11 |
| A 4A | 3 | | SHLD A4 | 37N | |
| A 4H | | | P2-M* | 22N | 26 |
| A 5 | 3 | | P2-N* | 22N | 26 |
| A 6 | 3 | | P2-P* | 22N | 26 |
| A 7 | 3 | | P2-Q* | 22N | 26 |
| A 8 | 3 | | P2-R* | 22N | 26 |
| A 9 | 3 | | P2-S* | 22N | 26 |
| A 10 | 3 | | P2-T* | 22N | 26 |
| A 11 | 3 | | P2-U* | 22N | 26 |
| A 12 | 3 | | P2-V* | 22N | 26 |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | | | SCALE-NONE | SHEET 7 OF 15 |

| CABLE W-54 | | | | 1900986 | |
|-------------------|------|-----|---|--|---------------|
| CONDUCTOR | | | | | |
| INDIVIDUAL LENGTH | ITEM | QTY | FROM | TO | |
| NUMBER | NO | | CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC | NO. |
| A 13 | 1 | | | 23Q 20Q | 9 10 5 |
| | | | | | A 11 |
| A 13A | 3 | | SHLD A13 | 37N | |
| A 13L | | | P2-X* | 22N | 26 |
| A 13R | | | P2-W* | 22N | 26 |
| A 14 | 1 | | | 23Q 20Q | 9 10 5 |
| | | | | | A 11 |
| A 14A | 3 | | SHLD A14 | 37N | |
| A 14L | | | P2-Z* | 22N | 26 |
| A 14R | | | P2-Y* | 22N | 26 |
| A 15 | 1 | | | 28Q 25Q | 9 10 5 |
| | | | | | A 11 |
| A 15A | 3 | | SHLD A15 | 37N | |
| A 15L | | | P2-CC | 22N | 26 |
| A 15R | | | P2-BB | 22N | 26 |
| A 16 | 1 | | | 28Q 25Q | 9 10 5 |
| | | | | | A 11 |
| A 16A | 3 | | SHLD A16 | 37N | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | | | SCALE-NONE | SHEET 8 OF 15 |

| CABLE W-54 | | | | | | | | | |
|---|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| A 1900986 | | | | | | | | | |
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| NUMBER | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | NUMBER | ITEM NO. | ITEM NO. | ITEM NO. |
| A 47 | 2 | 300 | 300 | 7 | 8 | A 47 | 2 | 300 | 300 |
| A 47A | 3 | SHLD A47 | 37N | E3 | 37N | A 47A | 3 | SHLD A47 | 37N |
| A 47W | 4 | P1-V* | 22N | 23 | P3-108 | A 47W | 4 | P1-V* | 22N |
| A 48 | 2 | 300 | 350 | 7 | 8 | A 48 | 2 | 300 | 350 |
| A 48A | 3 | SHLD A48 | 37N | E4 | 37N | A 48A | 3 | SHLD A48 | 37N |
| A 48W | 4 | P1-W* | 22N | 23 | P3-109 | A 48W | 4 | P1-W* | 22N |
| A 49 | 2 | 300 | 350 | 7 | 8 | A 49 | 2 | 300 | 350 |
| A 49A | 3 | SHLD A49 | 37N | E4 | 37N | A 49A | 3 | SHLD A49 | 37N |
| A 49W | 4 | P1-X* | 22N | 23 | P3-39 | A 49W | 4 | P1-X* | 22N |
| A 50 | 3 | P1-Y* | 22N | 23 | P3-48 | A 50 | 3 | P1-Y* | 22N |
| A 51 | 3 | P1-Z* | 22N | 23 | P3-58 | A 51 | 3 | P1-Z* | 22N |
| A 52 | 2 | 300 | 350 | 7 | 8 | A 52 | 2 | 300 | 350 |
| A 52A | 3 | SHLD A52 | 37N | E4 | 37N | A 52A | 3 | SHLD A52 | 37N |
| A 52W | 4 | P1-AA | 22N | 23 | P3-59 | A 52W | 4 | P1-AA | 22N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR A SHEET 13 OF 15 | | | | | | | | | |

| CABLE W-54 | | | | | | | | | |
|---|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| A 1900986 | | | | | | | | | |
| CONDUCTOR | | FROM | | TO | | CONDUCTOR | | FROM | |
| NUMBER | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | NUMBER | ITEM NO. | ITEM NO. | ITEM NO. |
| A 53 | 2 | 300 | 350 | 7 | 8 | A 53 | 2 | 300 | 350 |
| A 53A | 3 | SHLD A53 | 37N | E4 | 37N | A 53A | 3 | SHLD A53 | 37N |
| A 53W | 4 | P1-BB | 22N | 23 | P3-91 | A 53W | 4 | P1-BB | 22N |
| A 54 | 3 | P1-CC | 22N | 23 | P3-47 | A 54 | 3 | P1-CC | 22N |
| A 55 | 3 | P1-DD | 22N | 23 | P3-69 | A 55 | 3 | P1-DD | 22N |
| A 56 | 3 | P1-EE | 22N | 23 | P3-5 | A 56 | 3 | P1-EE | 22N |
| A 57 | 3 | P1-FF | 22N | 23 | P3-27 | A 57 | 3 | P1-FF | 22N |
| A 58 | 2 | 430 | 400 | 7 | 8 | A 58 | 2 | 430 | 400 |
| A 58A | 3 | SHLD A58 | 37N | E4 | 37N | A 58A | 3 | SHLD A58 | 37N |
| A 58W | 4 | P1-GG | 22N | 23 | P3-26 | A 58W | 4 | P1-GG | 22N |
| A 59 | 3 | P1-B | 22N | 23 | E2 | A 59 | 3 | P1-B | 22N |
| A 60 | 3 | E2 | 37N | E3 | 37N | A 60 | 3 | E2 | 37N |
| A 61 | 3 | E3 | 37N | E4 | 37N | A 61 | 3 | E3 | 37N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE: NONE REV LTR A SHEET 14 OF 15 | | | | | | | | | |



[illegible]

61J CABLE W-54 1900986

PENMANT GENERAL NOTES

NOTE 1. SEE CONDUCTOR CHART, PENMANT NOTE 1.

NOTE 2. SEE CONDUCTOR CHART, PENMANT NOTE 2.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70527.

MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.

SPIRALLING OF THE MARKING IS ALLOWED.

IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (13-867) .12 INCH HIGH CHARACTERS WHITE.

OR B IN TYPED COLUMN INDICATES YES OR NO.

LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.

VERBOS ITEM - 488 SPECIFICATION CONTROL DRAWING.

MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019 CENTRALIZE.

MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH COLOR BLACK PER ND1002019.

MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH COLOR BLACK PER ND1002019 WHEN SLEEVING BY NUMBER FOLLOWED BY A OR B IN THE ACCESSORIES ITEM NUMBER FIELD.

A OR B IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES

| | | |
|---------------|-------------------|----------------|
| MANUFACTURER | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SCALE: NONE | REV LTR | A |
| SHEET 2 OF 13 | | |

61J CABLE W-54 1900986

PENMANT GENERAL NOTES

NOTE 1. THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKED SLEEVE.

NOTE 2. THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.

A - FROM END SHIELD

B - WHITE WITH BLUE TRACER

C - WHITE WITH RED TRACER

D - WHITE

NOTE 3. ASSEMBLE CONTACTS IN ALL CONNECTOR GROOVET HOLES.

NOTE 4. SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR.

NOTE 5. SEAL ZIPPER TUBING PER ND1002183.

NOTE 6. SERIALIZE PER ND1002023.

NOTE 7. ITEM 20 FURNISHED WITH ITEM 5.

NOTE 8. ITEM 20 FURNISHED WITH ITEM 4.

NOTE 9. ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT.

| | | |
|---------------|-------------------|----------------|
| MANUFACTURER | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SCALE: NONE | REV LTR | A |
| SHEET 3 OF 13 | | |

61J CABLE W-54 1900986

PENMANT GENERAL NOTES

NOTE 1. TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.

| APPLICABLE LENGTH | WIRE OR CABLE | | STRIP WIRE | | STRIP JACKET | | CUT WIRE | | CUT SHIELD | |
|--------------------|---------------|----------|------------|----------|--------------|----------|----------|----------|------------|----------|
| | WIRE | CABLE | WIRE | JACKET | WIRE | JACKET | WIRE | JACKET | WIRE | JACKET |
| UNDER 3 INCH | ±.06-.00 | ±.03-.00 | ±.04-.06 | ±.08-.06 | ±.06-.06 | ±.06-.06 | ±.06-.06 | ±.06-.06 | ±.06-.06 | ±.06-.06 |
| 3 INCH TO 6 INCHES | ±.50-.00 | ±.06-.00 | ±.25-.25 | ±.25-.25 | ±.25-.25 | ±.25-.25 | ±.25-.25 | ±.25-.25 | ±.25-.25 | ±.25-.25 |
| 6 INCHES TO 6 FEET | ±1.00-.00 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 |
| OVER 6 FEET | ±2.00-.00 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 | ±.50-.50 |

| | | |
|---------------|-------------------|----------------|
| MANUFACTURER | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SCALE: NONE | REV LTR | A |
| SHEET 4 OF 13 | | |

61J CABLE W-54 1900986

PENMANT LIST OF MATERIALS

| NOTE | ITEM QTY | PART NO | DESCRIPTION |
|--------|----------|-----------------------------|---|
| 1 | 1 | 1900986-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/BLU, WHT/RED 126 FT TOTAL LENGTH |
| 2 | 1 | 1900986-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT, 226 FT TOTAL LENGTH |
| 3 | 1 | 1900986-003 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT 368 FT TOTAL LENGTH |
| 4 | 1 | MS120F22-55M (1897044-551) | CONNECTOR PLUS |
| 5 | 1 | MS120F22-55PX (1897045-552) | CONNECTOR PLUS |
| 10, 16 | 1 | 1010607-001 | CONNECTOR-PLUS |
| 10 | 1 | 1000243-003 | FERRULE, ELEC CORD |
| 10 | 1 | 1000242-002 | FERRULE, ELEC CORD |
| 10 | 1 | 1000243-004 | FERRULE, ELEC CORD |
| 10 | 1 | 1000242-007 | FERRULE, ELEC CORD |
| 10 | 1 | 1010490-198 | INSULATION-SLEEVING ELEC |
| 10 | 1 | 1010490-200 | INSULATION-SLEEVING ELEC |
| 10 | 1 | 1010490-250 | INSULATION-SLEEVING ELEC |
| 10 | 1 | 1016006-003 | SPLICE REDUCER |
| 10 | 1 | 1016120-041 | BAND-IDENTIFICATION |
| 10 | 1 | 1016120-041 | BAND-IDENTIFICATION |
| 10 | 1 | 1016120-002 | TRANSITION-HARNESSES, 2 FINGER (Y) |

| | | |
|---------------|-------------------|----------------|
| MANUFACTURER | SPACECRAFT CENTER | HOUSTON, TEXAS |
| SCALE: NONE | REV LTR | B |
| SHEET 5 OF 13 | | |

| PERMANENT | | LIST OF MATERIALS | | CABLE W-34 | | 1900986 | |
|-----------|----------|-------------------|--|------------|--|---------|--|
| NOTE | ITEM QTY | PART NO. | DESCRIPTION | | | | |
| | 18 | 1900986-084 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1 INCH DIA 15 FT TOTAL LENGTH | | | | |
| | 19 | 1900986-085 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 3/4 DIA 6 FT TOTAL LENGTH | | | | |
| | 20 | 1900986-086 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA 4 FT TOTAL LENGTH | | | | |
| | 21 | AR-1-723 | LACING TAPE TYPE B, CLASS 2, BLACK (15-2332 NO. 10) | | | | |
| | 10 | 22 108 | 1010444-082 CONTACT SOCKET | | | | |
| | 20 | 24 | CONTACT PINS | | | | |
| | 22 | 24 | 1097147-104 100 100 112 CABLE CLAMP SLEEVE | | | | |
| | 10 | 24 | 1016282-022 RUBBER GROMMET | | | | |
| | 21 | 24 | CONTACT SOCKET | | | | |
| | 10 | 27 | 1010902-44 TERMINAL LUG | | | | |
| | 25 | 27 | 1900986-087 TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 6 INCHES TOT. LGTH. | | | | |

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HOUSTON, TEXAS

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SHEET 6 OF 15

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|----------------|--|--------------------|----------------------|----------------|-------------------|----------|----------------------|---------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT |
| A 1 | 1 | P2-H | 22N | 24 | P3-84 | 22N | 22 | | | | |
| A 2 | 2 | P2-J | 22N | 24 | P3-93 | 22N | 22 | | | | |
| A 3 | 3 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 3A | 3 | SHLD A3 | 37N | | | | 37N | | | | |
| A 3B | 3 | P2-K | 22N | 24 | P3-90 | 22N | 22 | | | | |
| A 4 | 4 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 4A | 4 | SHLD A4 | 37N | | | | 37N | | | | |
| A 4B | 4 | P2-M | 22N | 24 | P3-108 | 22N | 22 | | | | |
| A 5 | 5 | P2-N | 22N | 24 | P3-76 | 22N | 22 | | | | |
| A 6 | 6 | P2-O | 22N | 24 | P3-6 | 22N | 22 | | | | |
| A 7 | 7 | P2-Q | 22N | 24 | P3-57 | 22N | 22 | | | | |
| A 8 | 8 | P2-R | 22N | 24 | P3-12 | 22N | 22 | | | | |
| A 9 | 9 | P2-S | 22N | 24 | P3-7 | 22N | 22 | | | | |
| A 10 | 10 | P2-T | 22N | 24 | P3-55 | 22N | 22 | | | | |
| A 11 | 11 | P2-U | 22N | 24 | P3-65 | 22N | 22 | | | | |
| A 12 | 12 | P2-V | 22N | 24 | P3-65 | 22N | 22 | | | | |
| | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | | | SCALE-NONE REV LTR | | | | SHEET 7 OF 15 | | | |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|----------------|--|--------------------|----------------------|----------------|-------------------|----------|----------------------|---------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT |
| A 13 | 13 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 13A | 13 | SHLD A13 | 37N | | | | 37N | | | | |
| A 13L | 13 | P2-X | 22N | 24 | P3-97 | 22N | 22 | | | | |
| A 13R | 13 | P2-Y | 22N | 24 | P3-96 | 22N | 22 | | | | |
| A 14 | 14 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 14A | 14 | SHLD A14 | 37N | | | | 37N | | | | |
| A 14L | 14 | P2-Z | 22N | 24 | P3-11 | 22N | 22 | | | | |
| A 14R | 14 | P2-1 | 22N | 24 | P3-10 | 22N | 22 | | | | |
| A 15 | 15 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 15A | 15 | SHLD A15 | 37N | | | | 37N | | | | |
| A 15L | 15 | P2-2 | 22N | 24 | P3-71 | 22N | 22 | | | | |
| A 15R | 15 | P2-3 | 22N | 24 | P3-70 | 22N | 22 | | | | |
| A 16 | 16 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 16A | 16 | SHLD A16 | 37N | | | | 37N | | | | |
| | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | | | SCALE-NONE REV LTR | | | | SHEET 8 OF 15 | | | |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|----------------|--|--------------------|----------------------|----------------|-------------------|----------|----------------------|---------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT |
| A 16L | 16 | P2-EE | 22N | 24 | P3-85 | 22N | 22 | | | | |
| A 16R | 16 | P2-ED | 22N | 24 | P3-82 | 22N | 22 | | | | |
| A 17 | 17 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 17A | 17 | SHLD A17 | 37N | | | | 37N | | | | |
| A 17L | 17 | P2-FF | 22N | 24 | P3-76 | 22N | 22 | | | | |
| A 17R | 17 | P2-G | 22N | 24 | P3-69 | 22N | 22 | | | | |
| A 18 | 18 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 18A | 18 | SHLD A18 | 37N | | | | 37N | | | | |
| A 18L | 18 | P2-H | 22N | 24 | P3-84 | 22N | 22 | | | | |
| A 19 | 19 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 19A | 19 | SHLD A19 | 37N | | | | 37N | | | | |
| A 19L | 19 | P2-I | 22N | 24 | P3-28 | 22N | 22 | | | | |
| A 19R | 19 | P2-J | 22N | 24 | P3-29 | 22N | 22 | | | | |
| A 20 | 20 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 20A | 20 | SHLD A20 | 37N | | | | 37N | | | | |
| A 20L | 20 | P2-K | 22N | 24 | P3-2 | 22N | 22 | | | | |
| A 21 | 21 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 21A | 21 | SHLD A21 | 37N | | | | 37N | | | | |
| A 21L | 21 | P1-M | 22N | 23 | | | | | | | |
| A 21R | 21 | P1-N | 22N | 23 | | | | | | | |
| A 22 | 22 | | 230 200 1 10 5 | | | | 230 200 1 10 5 | | | | |
| A 22A | 22 | SHLD A22 | 37N | | | | 37N | | | | |
| A 22L | 22 | P1-R | 22N | 23 | | | | | | | |
| | | | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | | | SCALE-NONE REV LTR | | | | SHEET 9 OF 15 | | | |

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| CONDUCTOR | | | | FROM | | | | TO | | | |
|---------------------|-----|----------|---------------|--------------------|------|--------|---------------|--------------------|------|------|---------------|
| INDIVIDUAL WIRE | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| STEP WIRE OR JACKET | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | |
| NUMBER | NO. | ITEM | CIRCUIT POINT | ITEM NO. | NO. | ITEM | CIRCUIT POINT | ITEM NO. | NO. | ITEM | CIRCUIT POINT |
| A 22R | 1 | P1-P | 22N | 23 | | P3- 3 | 22N | 22 | | | |
| A 23 | 1 | | 23C | 204 | 9 10 | | 23C | 200 | A 11 | 7A | |
| | | | | A 11 | | | | | | | |
| A 23A | 3 | SHLD A23 | 37N | | | E2 | 37N | | | | |
| A 23L | 1 | P1-T | 22N | 23 | | P3- 1B | 22N | 22 | | | |
| A 23R | 1 | P1-S | 22N | 23 | | P3- 1A | 22N | 22 | | | |
| A 24 | 3 | P1-U | 22N | 23 | | P3- 9 | 22N | 22 | | | |
| A 25 | 3 | P1-V | 22N | 23 | | P3- 25 | 22N | 22 | | | |
| A 26 | 3 | P1-W | 22N | 23 | | P3- 79 | 22N | 22 | | | |
| A 27 | 2 | | 23C | 200 | 7 8 | | 23C | 200 | A 12 | 7A | |
| | | | | A 12 | | | | | | | |
| A 27A | 3 | SHLD A27 | 37N | | | E2 | 37N | | | | |
| A 27M | 1 | P1-X | 22N | 23 | | P3- 88 | 22N | 22 | | | |
| A 28 | 3 | P1-Y | 22N | 23 | | P3- 46 | 22N | 22 | | | |
| A 29 | 3 | P1-A0 | 22N | 23 | | P3- 13 | 22N | 22 | | | |
| A 30 | 3 | P1-B0 | 22N | 23 | | P3- 6 | 22N | 22 | | | |
| A 31 | 3 | P1-C0 | 22N | 23 | | P3- 34 | 22N | 22 | | | |
| A 32 | 3 | P1-Z | 22N | 23 | | P3- 16 | 22N | 22 | | | |

> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS

SCALE-NONE

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1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|--------------------|-----|----------------------|---------------|-------------|------|----------------------|---------------|-------------|------|
| SUBSISTANCE NUMBER | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | 2 | | 20C | 25C | 7 8 | 5 | | 20C | 25C |
| | | | | | A 11 | | | | A 12 |
| A 33A | 3 | SHLD A33 | 37N | | | E2 | 37N | | |
| A 33M | 1 | P1-D0 | 22N | 23 | | P3-49 | 22N | 22 | |
| A 34 | 2 | | 20C | 25C | 7 8 | 5 | | 20C | 25C |
| | | | | | A 11 | | | | A 12 |
| A 34A | 3 | SHLD A34 | 37N | | | E2 | 37N | | |
| A 34M | 1 | P1-F0 | 22N | 23 | | P3-104 | 22N | 22 | |
| A 35 | 2 | P1-G0 | 22N | 23 | | P3-56 | 22N | 22 | |
| A 36 | 3 | | 20C | 25C | 7 8 | 5 | | 20C | 25C |
| | | | | | A 11 | | | | A 12 |
| A 36A | 3 | SHLD A36 | 37N | | | E3 | 37N | | |
| A 36M | 1 | P1-H0 | 22N | 23 | | P3-92 | 22N | 22 | |
| A 37 | 3 | P1-I0 | 22N | 23 | | P3-35 | 22N | 22 | |
| A 38 | 3 | P1-J0 | 22N | 23 | | P3-36 | 22N | 22 | |
| A 39 | 2 | | 20C | 25C | 7 8 | 5 | | 20C | 25C |
| | | | | | A 11 | | | | A 12 |
| A 39A | 3 | SHLD A39 | 37N | | | E3 | 37N | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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MANHATTAN SPACECRAFT CENTER
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61J CABLE W-54 1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|------------------|----------|----------------------|---------------|-------------|------|----------------------|---------------|-------------|-----|
| INDIVIDUAL LAYER | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 39M | 1 | P1-K0 | 22N | 23 | | P3-105 | 22N | 22 | |
| A 40 | 3 | P1-L0 | 22N | 23 | | P3-37 | 22N | 22 | |
| A 41 | 3 | P1-M0 | 22N | 23 | | P3-23 | 22N | 22 | |
| A 42 | 2 | | 33C | 30C | 7 8 | 5 | | 39C | 30C |
| | | | | A 11 | | | | A 12 | TA |
| A 42A | 3 | SHLD A42 | 37N | | | E3 | 37 | | |
| A 42M | 1 | P1-N0 | 22N | 23 | | P3-84 | 22N | 22 | |
| A 43 | 2 | | 33C | 30C | 7 8 | 5 | | 33C | 30C |
| | | | | A 11 | | | | A 12 | TA |
| A 43A | 3 | SHLD A43 | 37N | | | E3 | 37N | | |
| A 43M | 1 | P1-O0 | 22N | 23 | | P3-22 | 22N | 22 | |
| A 44 | 3 | P1-P0 | 22N | 23 | | P3-24 | 22N | 22 | |
| A 45 | 2 | | 33C | 30C | 9 10 | 5 | | 33C | 30C |
| | | | | A 11 | | | | A 12 | TA |
| A 45A | 3 | SHLD A45 | 37N | | | E3 | 37N | | |
| A 45L | 1 | P1-T0 | 22N | 23 | | P3-80 | 22N | 22 | |
| A 45R | 1 | P1-S0 | 22N | 23 | | P3-95 | 22N | 22 | |
| A 46 | 3 | P1-U0 | 22N | 23 | | P3-58 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SIZE

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| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------|-------|----------------------|---------------|-------------|---------|
| INDIVIDUAL NUMBER | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 47 | 2 | | 33C | 30C | 7 8 5 | | 33C | 30C | A 12 7A |
| | | | | A 11 | | | | | |
| A 47A | 3 | SHLD A47 | 37N | | | E3 | 37N | | |
| A 47M | 1 | P1-V0 | 22N | 23 | | P3-108 | 22N | 22 | |
| A 48 | 2 | | 30C | 35C | 7 8 5 | | 30C | 35C | A 12 7A |
| | | | | A 11 | | | | | |
| A 48A | 3 | SHLD A48 | 37N | | | E4 | 37N | | |
| A 48M | 1 | P1-W0 | 22N | 23 | | P3-103 | 22N | 22 | |
| A 49 | 2 | | 30C | 35C | 7 8 5 | | 30C | 35C | A 12 7A |
| | | | | A 11 | | | | | |
| A 49A | 3 | SHLD A49 | 37N | | | E4 | 37N | | |
| A 49M | 1 | P1-X0 | 22N | 23 | | P3-39 | 22N | 22 | |
| A 50 | 3 | P1-Y0 | 22N | 23 | | P3-48 | 22N | 22 | |
| A 51 | 3 | P1-Z0 | 22N | 23 | | P3-34 | 22N | 22 | |
| A 52 | 2 | | 30C | 35C | 7 8 5 | | 30C | 35C | A 12 7A |
| | | | | A 11 | | | | | |
| A 52A | 3 | SHLD A52 | 37N | | | E4 | 37N | | |
| A 52M | 1 | P1-AA | 22N | 23 | | P3-59 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
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SHEET 13 OF

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| CONDUCTOR | | | FROM | | | | TO | | | | | | |
|--|----------|---|------------------------|-----|-------------|---|------------------------|---|-------------|-----|------|------|----|
| INDIVIDUAL LENGTH | | | CIRCUIT WIRE OR SHIELD | | TERMINATION | | CIRCUIT WIRE OR SHIELD | | TERMINATION | | | | |
| NUMBER | ITEM NO. | 3 | ITEM NO. | 3 | ITEM NO. | 3 | ITEM NO. | 3 | ITEM NO. | 3 | | | |
| A 53 | 2 | | 30Q | 30Q | T | 8 | 8 | | 30Q | 30Q | A 12 | 7A | |
| A 53A | 3 | | SHLD A53 | 37N | | | | | E4 | 37N | | | |
| A 53M | 1 | | P1-BB | 22N | 23 | | | | P3- 91 | 22N | 22 | | |
| A 54 | 3 | | P1-CC | 22N | 23 | | | | P3- 47 | 22N | 22 | | |
| A 55 | 3 | | P1-DD | 22N | 23 | | | | P3- 69 | 22N | 22 | | |
| A 56 | 3 | | P1-EE | 22N | 23 | | | | P3- 5 | 22N | 22 | | |
| A 57 | 3 | | P1-FF | 22N | 23 | | | | P3- 27 | 22N | 22 | | |
| A 58 | 2 | | | 43Q | 40Q | T | 8 | 8 | | 43Q | 40Q | A 12 | 7A |
| A 58A | 3 | | SHLD A58 | 37N | | | | | E4 | 37N | | | |
| A 58M | 1 | | P1-GG | 22N | 23 | | | | P3- 26 | 22N | 22 | | |
| A 59 | 3 | | P1-H | 22N | 23 | | | | E2 | 37N | | | |
| A 60 | 3 | | E2 | 37N | | | | | E3 | 37N | | | |
| A 61 | 3 | | E3 | 37N | | | | | E4 | 37N | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | | |
| REV LTR A | | | | | | | | | | | | | |
| SHEET 14 OF 15 | | | | | | | | | | | | | |

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GIJ CABLE W-54 C 1900986

| PENNANT | GENERAL NOTES |
|---------|---|
| NOTE | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70927. |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 12 INCHES MAX. AND AT EACH TERMINATION. |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .12 INCH HIGH CHARACTERS WHITE. |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. |

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| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
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| SHEET 2 OF 16 | | |

GIJ CABLE W-54 C 1900986

| PENNANT | GENERAL NOTES |
|---------|---|
| NOTE | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. |
| 18 | SEAL ZIPPER TUBING PER ND1002153. |
| 19 | SERIALIZE PER ND1002023. |
| 20 | ITEM 23 FURNISHED WITH ITEM 5. |
| 21 | ITEM 26 FURNISHED WITH ITEM 4. |
| 22 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. |

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| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR | C |
| SHEET 3 OF 16 | | |

GIJ CABLE W-54 C 1900986

| PENNANT | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-----------------|---------------|--|--|--|------------------|---------------|-----------------|---------------|--------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------------|------------|--|-----------|-----------|-------------|------------|--|--|--|
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.</th> <th colspan="4">TOLERANCE</th> </tr> <tr> <th></th> <th>WIRE OR CABLE</th> <th>STRIP WIRE</th> <th>STRIP JACKET</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+ 1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+ 2.00-.00</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | OVER 6 FEET | + 2.00-.00 | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WIRE OR CABLE | STRIP WIRE | STRIP JACKET | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | + 2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
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| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR | C |
| SHEET 4 OF 16 | | |

GIJ CABLE W-54 C 1900986

| PENNANT | LIST OF MATERIALS |
|----------|---|
| NOTE | |
| ITEM QTY | PART NO DESCRIPTION CLASS CODE |
| 1 3 | 1900986-001 WIRE ND1002181 TYPE 2, CLASS A, WHT JACKET 22AWG WHT/BLU, WHT/RED 128 FT TOTAL LENGTH |
| 2 1 | 1900986-002 WIRE ND1002181 TYPE 1, CLASS A, WHT JACKET 22AWG WHT, 256 FT TOTAL LENGTH |
| 3 1 | 1900986-003 WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT 528 FT TOTAL LENGTH |
| 4 1 | MS3126F22-55SW (1897046-551) CONNECTOR PLUG |
| 5 1 | MS3126F22-55PX (1897045-552) CONNECTOR PLUG |
| 6 1 | 1010607-001 CONNECTOR-PLUG |
| 7 13 | 1000243-003 FERRULE, ELEC COND |
| 8 13 | 1000242-002 FERRULE, ELEC COND |
| 9 7 | 1000243-008 FERRULE, ELEC COND |
| 10 7 | 1000242-007 FERRULE, ELEC COND |
| 11 27 | 1010490-198 INSULATION-SLEEVING ELEC |
| 12 13 | 1010490-200 INSULATION-SLEEVING ELEC |
| 13 5 | 1010490-258 INSULATION-SLEEVING ELEC |
| 14 5 | 1016006-002 SPLICE REDUCER |
| 15 3 | 1016128-041 BAND-IDENTIFICATION |
| 16 1 | 1016128-011 BAND-IDENTIFICATION |
| 17 1 | 1016124-002 TRANSITION-HARNES, 2 FINGER (V) |

| | | |
|--|-----------|---------|
| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR | C |
| SHEET 5 OF 16 | | |

| | | | | | | | |
|---------|------|-------------------|----------------------------|--|------------|---------|--|
| 61J | | CABLE W-54 | | C | | 1900986 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | CLASS CODE | | |
| | 18 | 1 | 1900986-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1 INCH DIA 13 FT TOTAL LENGTH | | | |
| | 19 | 1 | 1900986-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 3/4 DIA 4 FT TOTAL LENGTH | | | |
| | 20 | 1 | 1900986-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA 4 FT TOTAL LENGTH | | | |
| | 21 | AR | NIL-T-713 | LACING TAPE TYPE B, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 22 | 109 | 1010464-002 | CONTACT SOCKET | | | |
| 20 | 23 | | | CONTACT, PINS | | | |
| 22 | 24 | AR | 1897147-104, 106, 108, 112 | CABLE CLAMP SLEEVE | | | |
| 10 | 25 | 2 | 1016282-022 | RUBBER GROMMET | | | |
| 21 | 26 | | | CONTACT, SOCKET | | | |
| 10 | 27 | 1 | 1015902-46 | TERMINAL LUG | | | |
| | 28 | 8 | 1900986-007 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 6 INCHES TOT. LGTH. | | | |
| | 29 | 1 | MS-24056-2 | CONNECTOR | | | |
| | 30 | 3 | MS-24018-1 | CONNECTOR, HOOD | | | |

| | | | |
|---|---------|-----------|---------------|
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900986 |
| SCALE-NONE | REV LTR | C | SHEET 6 OF 16 |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | | FROM | | | | TO | | | |
|-------------------|------|-----|----------------------|----------|-------------|----------|----------------------|----------|-------------|----------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM | NO. | STRIP WIRE OR JACKET | ITEM NO. | ITEM NO. | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | ITEM NO. | ITEM NO. |
| A 1 | 3 | | P7-HB | 22N | 26 | | P3- 68 | 22N | 22 | |
| A 2 | 3 | | P2-JB | 22N | 26 | | P3- 93 | 22N | 22 | |
| A 3 | | | DELETED | | | | | | | |
| | | | DELETED | | | | | | | |
| A 3A | | | DELETED | | | | | | | |
| A 3W | | | DELETED | | | | | | | |
| A 4 | | | DELETED | | | | | | | |
| | | | DELETED | | | | | | | |
| A 4A | | | DELETED | | | | | | | |
| A 4W | | | DELETED | | | | | | | |
| A 5 | 3 | | P7-NB | 22N | 26 | | P3- 78 | 22N | 22 | |
| A 6 | 3 | | P2-PB | 22N | 26 | | P3- 4 | 22N | 22 | |
| A 7 | 3 | | P2-OB | 22N | 26 | | P3- 57 | 22N | 22 | |
| A 8 | 3 | | P2-RB | 22N | 26 | | P3- 12 | 22N | 22 | |
| A 9 | 3 | | P2-SB | 22N | 26 | | P3- 7 | 22N | 22 | |
| A 10 | 3 | | P2-TB | 22N | 26 | | P3- 55 | 22N | 22 | |
| A 11 | 3 | | P2-UB | 22N | 26 | | P3- 45 | 22N | 22 | |
| A 12 | W | | P2-VB | 22N | 26 | | P3- 65 | 22N | 22 | |

>> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900986

SCALE-NONE

REV LTR

C

SHEET 7 OF 16

61J

CABLE W-54

C

1900986

| CONDUCTOR | | | | | | | | | | | |
|----------------------|------|-----|----------------------|-----|------|----------------------|---|---|----------------------|-----|---------|
| INDIVIDUAL LENGTH | | | FROM | | | | | | TO | | |
| TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | CIRCUIT POINT | | | CIRCUIT POINT | | |
| NUMBER | ITEM | NO. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| A 13 | 1 | | 230 | 200 | 9 10 | 5 | | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 13A | 3 | | SHLD A13 | 37N | | | | | E1 | 37N | |
| A 13L | | | P2-X* | 22N | 26 | | | | P3- 97 | 22N | 22 |
| A 13R | | | P2-W* | 22N | 26 | | | | P3- 96 | 22N | 22 |
| A 14 | 1 | | 230 | 200 | 9 10 | 5 | | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 14A | 3 | | SHLD A14 | 37N | | | | | E1 | 37N | |
| A 14L | | | P2-Z* | 22N | 26 | | | | P3- 11 | 22N | 22 |
| A 14R | | | P2-Y* | 22N | 26 | | | | P3- 10 | 22N | 22 |
| A 15 | 1 | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 15A | 3 | | SHLD A15 | 37N | | | | | E1 | 37N | |
| A 15L | | | P2-CC | 22N | 26 | | | | P3- 71 | 22N | 22 |
| A 15R | | | P2-BB | 22N | 26 | | | | P3- 70 | 22N | 22 |
| A 16 | 1 | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | | | |
| A 16A | 3 | | SHLD A16 | 37N | | | | | E1 | 37N | |

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|---|------------|---------------|
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900986 |
| | A | |
| | SCALE-NONE | |
| REV LTR | C | SHEET 8 OF 16 |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | | FROM | | | | TO | | | | | |
|-------------------|------|-----|--------------------|-----|-----|------|--------------------|-----|-----|------|-------------|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | TERMINATION | |
| | | | ITEM NO. | | | | ITEM NO. | | | | SPEC. | |
| | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | | |
| NUMBER | ITEM | NO. | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | ITEM NO. | NO. |
| A 16L | | | P2-EE | 22N | 26 | | P3-83 | 22N | 22 | | | |
| A 16R | | | P2-DD | 22N | 26 | | P3-82 | 22N | 22 | | | |
| A 17 | 2 | | | 280 | 250 | 9 10 | | 280 | 250 | A 12 | 5 | |
| | | | | | | A 11 | | | | | | |
| A 17A | 3 | | SHLD A17 | 37N | | | E1 | | 37N | | | |
| A 17L | | | P2-FF | 22N | 26 | | P3-76 | 22N | 22 | | | |
| A 18 | 3 | | P2-GG | 22N | 26 | | P3-89 | 22N | 22 | | | |
| A 19 | 3 | | P2-BB | 22N | 26 | | E1 | | 22N | | | |
| A 20 | 3 | | P4-1 | 22N | 26 | | P3-84 | 22N | 22 | | | |
| A 21 | 1 | | | 230 | 200 | 9 10 | | 230 | 200 | A 11 | 5 | |
| | | | | | | A 11 | | | | | | |
| A 21A | 3 | | SHLD A21 | 37N | | | E2 | | 37N | | | |
| A 21L | | | P1-N | 22N | 26 | | P3-28 | 22N | 22 | | | |
| A 21R | | | P1-M | 22N | 26 | | P3-29 | 22N | 22 | | | |
| A 22 | 1 | | | 230 | 200 | 9 10 | | 230 | 200 | A 11 | 7A | |
| | | | | | | A 11 | | | | | | |
| A 22A | 3 | | SHLD A22 | 37N | | | E2 | | 37N | | | |
| A 22L | | | P1-R | 22N | 26 | | P3-2 | 22N | 22 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900986

SCALE-NONE

REV LTR

C

SHEET 9 OF 16

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|---------------------|---------------------|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 |
| NUMBER | NO. | STEP WIRE OR JACKET | ITEM NO. | STEP WIRE OR JACKET | ITEM NO. |
| A 27R | 1 | P1-P | 22N | P3-1 | 22N |
| A 28 | 1 | | 230 200 9 10 5 | | 230 200 A 11 7A |
| | | | A 11 | | |
| A 23A | 3 | SHLD A23 | 37N | E2 | 37N |
| A 23L | 1 | P1-T | 22N | P3-15 | 22N |
| A 23R | 1 | P1-S | 22N | P3-14 | 22N |
| A 24 | 3 | P1-U | 22N | P3-9 | 22N |
| A 25 | 3 | P1-V | 22N | P3-25 | 22N |
| A 26 | 3 | P1-W | 22N | P3-79 | 22N |
| A 27 | 2 | | 230 200 7 8 5 | | 230 200 A 12 7A |
| | | | A 11 | | |
| A 27A | 3 | SHLD A27 | 37N | E2 | 37N |
| A 27W | 1 | P1-X | 22N | P3-88 | 22N |
| A 28 | 3 | P1-Y | 22N | P3-46 | 22N |
| A 29 | 3 | P1-A* | 22N | P3-13 | 22N |
| A 30 | 3 | P1-B* | 22N | P3-6 | 22N |
| A 31 | 3 | P1-C* | 22N | P3-34 | 22N |
| A 32 | 3 | P1-Z | 22N | P3-18 | 22N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| | | SCALE: NONE | | REV LTR C | |
| | | | | SHEET 10 OF 16 | |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|---------------------|---------------------|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 |
| NUMBER | NO. | STEP WIRE OR JACKET | ITEM NO. | STEP WIRE OR JACKET | ITEM NO. |
| A 33 | 2 | | 280 250 7 8 5 | | 280 250 A 12 7A |
| | | | A 11 | | |
| A 33A | 3 | SHLD A33 | 37N | E2 | 37N |
| A 33W | 1 | P1-D* | 22N | P3-49 | 22N |
| A 34 | 7 | | 280 250 7 8 5 | | 280 250 A 12 7A |
| | | | A 11 | | |
| A 34A | 3 | SHLD A34 | 37N | E2 | 37N |
| A 34W | 1 | P1-F* | 22N | P3-104 | 22N |
| A 35 | 3 | P1-G* | 22N | P3-56 | 22N |
| A 36 | 2 | | 280 250 7 8 5 | | 280 250 A 12 7A |
| | | | A 11 | | |
| A 36A | 3 | SHLD A36 | 37N | E3 | 37N |
| A 36W | 1 | P1-H* | 22N | P3-92 | 22N |
| A 37 | 3 | P1-I* | 22N | P3-35 | 22N |
| A 38 | 3 | P1-J* | 22N | P3-36 | 22N |
| A 39 | 2 | | 280 250 7 8 5 | | 280 250 A 12 7A |
| | | | A 11 | | |
| A 39A | 3 | SHLD A39 | 37N | E3 | 37N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| | | SCALE: NONE | | REV LTR C | |
| | | | | SHEET 11 OF 16 | |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|---------------------|---------------------|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 |
| NUMBER | NO. | STEP WIRE OR JACKET | ITEM NO. | STEP WIRE OR JACKET | ITEM NO. |
| A 39W | 1 | P1-K* | 22N | P3-105 | 22N |
| A 40 | 3 | P1-M* | 22N | P3-37 | 22N |
| A 41 | 3 | P1-N* | 22N | P3-23 | 22N |
| A 42 | 2 | | 330 300 7 8 5 | | 330 300 A 12 7A |
| | | | A 11 | | |
| A 42A | 3 | SHLD A42 | 37N | E3 | 37N |
| A 42W | 1 | P1-P* | 22N | P3-94 | 22N |
| A 43 | 2 | | 330 300 7 8 5 | | 330 300 A 12 7A |
| | | | A 11 | | |
| A 43A | 3 | SHLD A43 | 37N | E3 | 37N |
| A 43W | 1 | P1-Q* | 22N | P3-22 | 22N |
| A 44 | 3 | P1-R* | 22N | P3-24 | 22N |
| A 45 | | DELETED | | | |
| A 45A | | DELETED | | | |
| A 45W | | DELETED | | | |
| A 46 | 3 | P1-U* | 22N | P3-5R | 22N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| | | SCALE: NONE | | REV LTR C | |
| | | | | SHEET 12 OF 16 | |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|---------------------|---------------------|---------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 | CUT WIRE OR SHIELD | TERMINATION SPEC. 1 |
| NUMBER | NO. | STEP WIRE OR JACKET | ITEM NO. | STEP WIRE OR JACKET | ITEM NO. |
| A 47 | 2 | | 330 300 7 8 5 | | 330 300 A 12 7A |
| | | | A 11 | | |
| A 47A | 3 | SHLD A47 | 37N | E3 | 37N |
| A 47W | 1 | P1-V* | 22N | E5-37N | 22N |
| A 48 | 7 | | 380 350 7 8 5 | | 380 350 A 12 7A |
| | | | A 11 | | |
| A 48A | 3 | SHLD A48 | 37N | E4 | 37N |
| A 48W | 1 | P1-W* | 22N | P3-103 | 22N |
| A 49 | 2 | | 380 350 7 8 5 | | 380 350 A 12 7A |
| | | | A 11 | | |
| A 49A | 3 | SHLD A49 | 37N | E4 | 37N |
| A 49W | 1 | P1-X* | 22N | P3-39 | 22N |
| A 50 | 3 | P1-Y* | 22N | P3-48 | 22N |
| A 51 | 3 | P1-Z* | 22N | P3-38 | 22N |
| A 52 | 2 | | 380 350 7 8 5 | | 380 350 A 12 7A |
| | | | A 11 | | |
| A 52A | 3 | SHLD A52 | 37N | E4 | 37N |
| A 52W | 1 | P1-AA | 22N | P3-59 | 22N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | |
| | | SCALE: NONE | | REV LTR C | |
| | | | | SHEET 13 OF 16 | |


C 1900984

612

CABLE W-54

C 1900986

| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|----------|---|----------------------|------------------|-----|----------------------|------------------|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | TERMINATION SPEC | NO. | STRIP WIRE OR JACKET | TERMINATION SPEC | NO. |
| | | | CIRCUIT POINT | ITEM NO. | | CIRCUIT POINT | ITEM NO. | |
| A 65 | 1 | | P3- 91 | 22N | 22 | P5-D | 25V | |
| A 66 | 1 | | P3- P0 | 22N | 22 | P5-E | 25V | |
| A 67 | 1 | | P3- 95 | 22N | 22 | P5-F | 25V | |
| A 68 | 1 | | P1-1* | 22N | 22 | E5 | 17N | |



THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MAINED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900986

SCALE - NONE

REV LTR C

SHEET 15 OF 16

[illegible]

| PENNANT | | GENERAL NOTES | | CABLE W-54 | | C | | 1900986 | |
|---------|---|---|--|------------|--|---------------|--|---------|--|
| NOTE | | | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900986 | | | |
| | | SCALE-NONE | | REV LTR C | | SHEET 2 OF 16 | | | |

| PENNANT | | GENERAL NOTES | | CABLE W-54 | | D | | 1900986 | |
|---------|---|---|--|------------|--|---------------|--|---------|--|
| NOTE | | | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE | | | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. | | | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | | | | | | | |
| 19 | SERIALIZE PER ND1002023. | | | | | | | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 5. | | | | | | | | |
| 21 | ITEM 26 FURNISHED WITH ITEM 4. | | | | | | | | |
| 22 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | | | | | | | |
| 23 | NOTES 10 AND 16 BOTH APPLY | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900986 | | | |
| | | SCALE-NONE | | REV LTR D | | SHEET 3 OF 16 | | | |

| PENNANT | | GENERAL NOTES | | CABLE W-54 | | C | | 1900986 | |
|--|--|---|--|------------|--|---------------|--|---------|--|
| NOTE | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | |
| TOLERANCE | | | | | | | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE SHIELD | | | | | | | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | | | | | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | | | | | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | | | | | | | |
| OVER 6 FEET +2.00-.00 | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900986 | | | |
| | | SCALE-NONE | | REV LTR C | | SHEET 4 OF 16 | | | |

| PENNANT | | LIST OF MATERIALS | | CABLE W-54 | | D | | 1900986 | |
|----------|----|---|---|------------|--|---------------|--|---------|--|
| NOTE | | | | | | | | | |
| ITEM QTY | | | | | | | | | |
| 1 | 1 | 1900986-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/BLU, WHT/RED 128 FT TOTAL LENGTH | | | | | | |
| 2 | 1 | 1900986-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT, 256 FT TOTAL LENGTH | | | | | | |
| 3 | 1 | 1900986-003 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT 560 FT TOTAL LENGTH | | | | | | |
| 4 | 1 | MS3126F22-55SW (1897046-551) | CONNECTOR PLUG | | | | | | |
| 5 | 1 | MS3126F22-55PX (1897045-552) | CONNECTOR PLUG | | | | | | |
| 23 | 6 | 1010607-001 | CONNECTOR-PLUG | | | | | | |
| 10 | 7 | 1000243-003 | FERRULE, ELEC COND | | | | | | |
| 10 | 8 | 1000242-002 | FERRULE, ELEC COND | | | | | | |
| 10 | 9 | 1000243-008 | FERRULE, ELEC COND | | | | | | |
| 10 | 10 | 1000242-007 | FERRULE, ELEC COND | | | | | | |
| 10 | 11 | 1010490-198 | INSULATION-SLEEVING ELEC | | | | | | |
| 10 | 12 | 1010490-200 | INSULATION-SLEEVING ELEC | | | | | | |
| 10 | 13 | 1010490-258 | INSULATION-SLEEVING ELEC | | | | | | |
| 10 | 14 | 1016006-002 | SPLICE REDUCER | | | | | | |
| 10 | 15 | 1016128-041 | BAND-IDENTIFICATION | | | | | | |
| 10 | 16 | 1016128-011 | BAND-IDENTIFICATION | | | | | | |
| 10 | 17 | 1016184-002 | TRANSITION-HARNES, 2 FINGER (Y) | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900986 | | | |
| | | SCALE-NONE | | REV LTR D | | SHEET 5 OF 16 | | | |

| | | | | |
|----------|------|-------------------|----------------------------|--|
| PENNA NT | | LIST OF MATERIALS | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
| | 18 | 1 | 1900986-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1 INCH DIA 13 FT TOTAL LENGTH |
| | 19 | 1 | 1900986-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 3/4 DIA 4 FT TOTAL LENGTH |
| | 20 | 1 | 1900986-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA 4 FT TOTAL LENGTH |
| | 21 | AR | MIL-T-713 | LACING TAPE TYPE B, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 22 | 109 | 1010464-002 | CONTACT SOCKET |
| 20 | 23 | | | CONTACT, PINS |
| 22 | 24 | AR | 1897147-104, 106, 108, 112 | CABLE CLAMP SLEEVE |
| 10 | 25 | 2 | 1016282-022 | RUBBER GROMMET |
| 21 | 26 | | | CONTACT, SOCKET |
| 10 | 27 | 1 | 1015902- 46 | TERMINAL LUG |
| | 28 | 2 | 1900986-007 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 6 INCHES TOT. LGTH. |
| | 29 | 1 | MS-24056-2 | CONNECTOR |
| | 30 | 1 | MS-24018-1 | CONNECTOR, HOOD |
| | 31 | 1 | 1900986-008 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 2 FEET TOT. LGTH. |

| | | |
|--|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900986 |
| | A | |
| SCALE-NONE | REV LTR | D |
| | | SHEET 6 OF 16 |

| GIJ | | CABLE W-54 | | | | | | | | | | C | 1900986 | | | | |
|--|--|------------|--|--|--|---------------|-------------------|---|---|--------------------|---------|-----|-------------------|---|----------|-----|---------|
| CONDUCTOR | | | | FROM | | | | | | TO | | | | | | 8 | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | |
| NUMBER | | ITEM NO. | | STEP WIRE OR JACKET | | CIRCUIT POINT | T | I | N | ITEM NO. | | T | I | N | ITEM NO. | | NO. |
| A 1 | | 3 | | P2-H* | | 22N | 26 | | | P3- 68 | | 22N | 22 | | | | |
| A 2 | | 3 | | P2-J* | | 22N | 26 | | | P3- 93 | | | 22 | | | | |
| A 3 | | | | DELETED | | | | | | | | | | | | | |
| A 3 | | | | DELETED | | | | | | | | | | | | | |
| A 3A | | | | DELETED | | | | | | | | | | | | | |
| A 3M | | | | DELETED | | | | | | | | | | | | | |
| A 4 | | | | DELETED | | | | | | | | | | | | | |
| A 4 | | | | DELETED | | | | | | | | | | | | | |
| A 4A | | | | DELETED | | | | | | | | | | | | | |
| A 4M | | | | DELETED | | | | | | | | | | | | | |
| A 5 | | 3 | | P2-N* | | 22N | 26 | | | P3- 78 | | 22N | 22 | | | | |
| A 6 | | 3 | | P2-P* | | 22N | 26 | | | P3- 4 | | 22N | 22 | | | | |
| A 7 | | 3 | | P2-Q* | | 22N | 26 | | | P3- 57 | | 22N | 22 | | | | |
| A 8 | | 3 | | P2-R* | | 22N | 26 | | | P3- 12 | | 22N | 22 | | | | |
| A 9 | | 3 | | P2-S* | | 22N | 26 | | | P3- 7 | | 22N | 22 | | | | |
| A 10 | | 3 | | P2-T* | | 22N | 26 | | | P3- 55 | | 22N | 22 | | | | |
| A 11 | | 3 | | P2-U* | | 22N | 26 | | | P3- 45 | | 22N | 22 | | | | |
| A 12 | | 3 | | P2-V* | | 22N | 26 | | | P3- 65 | | 22N | 22 | | | | |
| <div>▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | SIZE | 1900986 | | | | | | |
| | | | | | | | | | | A | | | | | | | |
| | | | | | | | | | | SCALE-NONE | | | | | | | REV LTR |

| GIJ | | CABLE W-54 | | | | | | | | | | C | | 1900986 | | | |
|---|----------|------------|----------|----------------------|-----|------|-------------------|--|--------|--|-----|---------------|-------------------|---------|--|---------------|--|
| CONDUCTOR | | | | FROM | | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | | |
| | | | | STRIP WIRE OR JACKET | | | | | | STRIP WIRE OR JACKET | | | | | | | |
| | | | | CIRCUIT POINT | | | ITEM NO. | | | CIRCUIT POINT | | | ITEM NO. | | | | |
| NUMBER | ITEM NO. | | | | | | | | | | | | | | | | |
| A 13 | 1 | | | 230 | 200 | 9 10 | 5 | | | 230 | 200 | A 11 | 7A | | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 13A | 3 | | SHLD A13 | 37N | | | | | E1 | 37N | | | | | | | |
| A 13L | | | P2-X* | 22N | | 26 | | | P3- 97 | 22N | | 22 | | | | | |
| A 13R | | | P2-W* | 22N | | 26 | | | P3- 96 | 22N | | 22 | | | | | |
| A 14 | 1 | | | 230 | 200 | 9 10 | 5 | | | 230 | 200 | A 11 | 7A | | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 14A | 3 | | SHLD A14 | 37N | | | | | E1 | 37N | | | | | | | |
| A 14L | | | P2-Z* | 22N | | 26 | | | P3- 11 | 22N | | 22 | | | | | |
| A 14R | | | P2-Y* | 22N | | 26 | | | P3- 10 | 22N | | 22 | | | | | |
| A 15 | 1 | | | 280 | 250 | 9 10 | 5 | | | 230 | 200 | A 11 | 7A | | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 15A | 3 | | SHLD A15 | 37N | | | | | E1 | 37N | | | | | | | |
| A 15L | | | P2-CC | 22N | | 26 | | | P3- 71 | 22N | | 22 | | | | | |
| A 15R | | | P2-BB | 22N | | 26 | | | P3- 70 | 22N | | 22 | | | | | |
| A 16 | 1 | | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 11 | 5 | | | | |
| | | | | | | A 11 | | | | | | | | | | | |
| A 16A | 3 | | SHLD A16 | 37N | | | | | E1 | 37N | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900986 | | | |
| | | | | | | | | | | SCALE - NONE | | REV LTR | | C | | SHEET 8 OF 16 | |
| | | | | | | | | | | | | | | | | | |

| 61J | | CABLE W-54 | | | | | | | | | | C | | 1900986 | | | | | | | | | | |
|---|----------|------------|---------------------|-----|-----|---|----|-------------------|------|--|--|--------|---------------------|---------|---------------|----|--|-------------------|--|---------|--|--|--|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | |
| | | | STEP WIRE OR JACKET | | | | | | | | | | STEP WIRE OR JACKET | | | | | | | | | | | |
| NUMBER | ITEM NO. | 3 | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | |
| A 16L | | | P2-EE | 22N | 26 | | | | | | | P3- 83 | 22N | 22 | | | | | | | | | | |
| A 16R | | | P2-DD | 22N | 26 | | | | | | | P3- 82 | 22N | 22 | | | | | | | | | | |
| A 17 | 2 | | | 280 | 250 | 7 | 8 | 5 | | | | | 280 | 250 | A 12 | 5 | | | | | | | | |
| | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A 17A | 3 | | SHLD A17 | 37N | | | | | | | | E1 | 37N | | | | | | | | | | | |
| A 17M | | | P2-FF | 22N | 26 | | | | | | | P3- 76 | 22N | 22 | | | | | | | | | | |
| A 18 | 3 | | P2-GG | 22N | 26 | | | | | | | P3- 89 | 22N | 22 | | | | | | | | | | |
| A 19 | 3 | | P2-B | 22N | 26 | | | | | | | E1 | 22N | | | | | | | | | | | |
| A 20 | 3 | | P4- 1 | 25N | 27 | | | | | | | P3- 84 | 22N | 22 | | | | | | | | | | |
| A 21 | 1 | | | 230 | 200 | 9 | 10 | 5 | | | | | 230 | 200 | A 11 | 5 | | | | | | | | |
| | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A 21A | 3 | | SHLD A21 | 37N | | | | | | | | E2 | 37N | | | | | | | | | | | |
| A 21L | | | P1-N | 22N | 23 | | | | | | | P3- 28 | 22N | 22 | | | | | | | | | | |
| A 21R | | | P1-M | 22N | 23 | | | | | | | P3- 29 | 22N | 22 | | | | | | | | | | |
| A 22 | 1 | | | 230 | 200 | 9 | 10 | 5 | | | | | 230 | 200 | A 11 | 7A | | | | | | | | |
| | | | | | | | | | A 11 | | | | | | | | | | | | | | | |
| A 22A | 3 | | SHLD A22 | 37N | | | | | | | | E2 | 37N | | | | | | | | | | | |
| A 22L | | | P1-R | 22N | 23 | | | | | | | P3- 2 | 22N | 22 | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | SIZE A | | | | | 1900986 | | | | |
| | | | | | | | | | | SCALE-NONE | | | | | REV LTR | | | | | C | | | | |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|----------------------|----------|--|----------|----------------------|------|---|----|----------------------|-----|-----|------|
| INDIVIDUAL LENGTH | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | |
| CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | ITEM NO. | | | ITEM NO. | | | | ITEM NO. | | | |
| A 22R | | | P1-P | 22N | 23 | | | P3- 1 | 22N | 22 | |
| A 23 | 1 | | | 23O | 200 | 9 | 10 | 5 | 23O | 200 | A 11 |
| | | | | | A 11 | | | | | | |
| A 23A | 3 | | SHLD A23 | 37N | | | | E2 | 37N | | |
| A 23L | | | P1-T | 22N | 23 | | | P3- 15 | 22N | 22 | |
| A 23R | | | P1-S | 22N | 23 | | | P3- 14 | 22N | 22 | |
| A 24 | 3 | | P1-U | 22N | 23 | | | P3- 9 | 22N | 22 | |
| A 25 | 3 | | P1-V | 22N | 23 | | | P3- 25 | 22N | 22 | |
| A 26 | 3 | | P1-W | 22N | 23 | | | P3- 79 | 22N | 22 | |
| A 27 | 2 | | | 23O | 200 | 7 | 8 | 5 | 23O | 200 | A 12 |
| | | | | | A 11 | | | | | | |
| A 27A | 3 | | SHLD A27 | 37N | | | | E2 | 37N | | |
| A 27W | | | P1-X | 22N | 23 | | | P3- 88 | 22N | 22 | |
| A 28 | 3 | | P1-Y | 22N | 23 | | | P3- 46 | 22N | 22 | |
| A 29 | 3 | | P1-A* | 22N | 23 | | | P3- 13 | 22N | 22 | |
| A 30 | 3 | | P1-B* | 22N | 23 | | | P3- 6 | 22N | 22 | |
| A 31 | 3 | | P1-C* | 22N | 23 | | | P3- 34 | 22N | 22 | |
| A 32 | 3 | | P1-Z | 22N | 23 | | | P3- 18 | 22N | 22 | |

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

1909066

REV LTR C

SHEET 10 OF 16

| CONDUCTOR | | | | FROM | | | | TO | | | | 6 | |
|---------------------|----------|----------|---|--------------------|-----|------|---|---------------------|--------|----|-----|-------------------|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | |
| STEP WIRE OR JACKET | | | | TERMINATION SPEC. | | | | STEP WIRE OR JACKET | | | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| A 33 | 2 | | | 280 | 250 | 7 | 8 | 5 | | | 280 | 250 | A 12 7A |
| | | | | | | A 11 | | | | | | | |
| A 33A | 3 | SHLD A33 | | 37N | | | | | E2 | | 37N | | |
| A 33W | | P1-D* | | 22N | | 23 | | | P3- 49 | | 22N | | 22 |
| A 34 | 2 | | | 280 | 250 | 7 | 8 | 5 | | | 280 | 250 | A 12 7A |
| | | | | | | A 11 | | | | | | | |
| A 34A | 3 | SHLD A34 | | 37N | | | | | E2 | | 37N | | |
| A 34W | | P1-F* | | 22N | | 23 | | | P3-104 | | 22N | | 22 |
| A 35 | 3 | P1-G* | | 22N | | 23 | | | P3- 56 | | 22N | | 22 |
| A 36 | 2 | | | 280 | 250 | 7 | 8 | 5 | | | 280 | 250 | A 12 7A |
| | | | | | | A 11 | | | | | | | |
| A 36A | 3 | SHLD A36 | | 37N | | | | | E3 | | 37N | | |
| A 36W | | P1-H* | | 22N | | 23 | | | P3- 92 | | 22N | | 22 |
| A 37 | 3 | P1-I* | | 22N | | 23 | | | P3- 35 | | 22N | | 22 |
| A 38 | 3 | P1-J* | | 22N | | 23 | | | P3- 36 | | 22N | | 22 |
| A 39 | 2 | | | 280 | 250 | 7 | 8 | 5 | | | 280 | 250 | A 12 7A |
| | | | | | | A 11 | | | | | | | |
| A 39A | 3 | SHLD A39 | | 37N | | | | | E3 | | 37N | | |

▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MAHMOUD
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900986

SCALE - NONE

REV LTR C

SHEET 11 OF 16

| CONDUCTOR INDIVIDUAL LENGTH | | | | FROM | | | | TO | | | | | | | |
|--------------------------------|----------|---------------|----------|-------------------|------|------------|--|----------------------|-----|---------------|------|-------------------|--|------------|--|
| CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | |
| STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | ITEM INCH. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | ITEM INCH. | |
| MM/INCH | ITEM NO. | | | | | | | | | | | | | | |
| A 39W | | | P1-K* | 22N | 23 | | | P3-105 | 22N | 22 | | | | | |
| A 40 | 3 | | P1-M* | 22N | 23 | | | P3- 37 | 22N | 22 | | | | | |
| A 41 | 3 | | P1-N* | 22N | 23 | | | P3- 23 | 22N | 22 | | | | | |
| A 42 | 2 | | | 330 | 300 | 7 6 5 | | | 330 | 300 | A 12 | 7A | | | |
| | | | | | A 11 | | | | | | | | | | |
| A 42A | 3 | | SHLD A42 | 37N | | | | E3 | 37 | | | | | | |
| A 42W | | | P1-P* | 22N | 23 | | | P3- 94 | 22 | 22 | | | | | |
| A 43 | 2 | | | 330 | 300 | 7 6 5 | | | 330 | 300 | A 12 | 7A | | | |
| | | | | | A 11 | | | | | | | | | | |
| A 43A | 3 | | SHLD A43 | 37N | | | | E3 | 37N | | | | | | |
| A 43W | | | P1-Q* | 22N | 23 | | | P3- 22 | 22N | 22 | | | | | |
| A 44 | 3 | | P1-R* | 22N | 23 | | | P3- 24 | 22N | 22 | | | | | |
| A 45 | | | DELETED | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | |
| A 45A | | | DELETED | | | | | | | | | | | | |
| A 45L | | | DELETED | | | | | | | | | | | | |
| A 45R | | | DELETED | | | | | | | | | | | | |
| A 46 | 3 | | P1-U* | 22N | 23 | | | P3- 58 | 22N | 22 | | | | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900986

SCALE - NONE

REV LTR C

SHEET 12 OF 16

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|----------------------|----------|---|---|--------------------|-----|---|------|--------------------|---|--------|-----|------|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | | |
| STRIP WIRE OR JACKET | | | | TERMINATION SPEC. | | | | TERMINATION SPEC. | | | | | |
| NUMBER | ITEM NO. | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | | |
| CIRCUIT POINT | | | | ITEM NO. | | | | ITEM NO. | | | | | |
| A 47 | 2 | | | 380 | 300 | 7 | 8 | 5 | | 380 | 300 | A 12 | 7A |
| | | | | | | | A 11 | | | | | | |
| A 47A | 3 | | | SHLD A47 | 37N | | | | | E3 | 37N | | |
| A 47W | | | | P1-V* | 22N | | 23 | | | E5-37N | 22N | | 22 |
| A 48 | 2 | | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 12 | 7A |
| | | | | | | | A 11 | | | | | | |
| A 48A | 3 | | | SHLD A48 | 37N | | | | | E4 | 37N | | |
| A 48W | | | | P1-W* | 22N | | 23 | | | P3-103 | 22N | | 22 |
| A 49 | 2 | | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 12 | 7A |
| | | | | | | | A 11 | | | | | | |
| A 49A | 3 | | | SHLD A49 | 37N | | | | | E4 | 37N | | |
| A 49W | | | | P1-X* | 22N | | 23 | | | P3- 39 | 22N | | 22 |
| A 50 | 3 | | | P1-Y* | 22N | | 23 | | | P3- 48 | 22N | | 22 |
| A 51 | 3 | | | P1-Z* | 22N | | 23 | | | P3- 38 | 22N | | 22 |
| A 52 | 2 | | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 12 | 7A |
| | | | | | | | A 11 | | | | | | |
| A 52A | 3 | | | SHLD A52 | 37N | | | | | E4 | 37N | | |
| A 52W | | | | P1-AA | 22N | | 23 | | | P3- 59 | 22N | | 22 |

1

2

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MAHMOUD
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900986

SCALE - NONE

REV LTR C

SHEET 13 OF 16

MIL 8835 - 4-63 WIR

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | TO | |
|--|---|---|---------------|--------------------|-----------------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. | | ITEM NO. | | ITEM NO. | |
| A 53 | | DELETED | | | |
| | | DELETED | | | |
| A 53A | | DELETED | | | |
| A 53W | | DELETED | | | |
| A 54 | 3 | P1-CC | 22N 23 | P3- 47 | 22N 22 |
| A 55 | 3 | P1-DD | 22N 23 | P3- 69 | 22N 22 |
| A 56 | 3 | P1-EE | 22N 23 | P3- 5 | 22N 22 |
| A 57 | 3 | P1-FF | 22N 23 | P3- 27 | 22N 22 |
| A 58 | 2 | | 430 400 7 6 5 | | 430 400 A 12 7A |
| | | | A 11 | | |
| A 58A | 3 | SHLD A58 | 37N | E4 | 37N |
| A 58W | | P1-GG | 22N 23 | P3- 26 | 22N 22 |
| A 59 | 3 | P1-B | 22N 23 | E2 | 37N |
| A 60 | 3 | E2 | 37N | E3 | 37N |
| A 61 | 3 | E3 | 37N | E4 | 37N |
| A 62 | 3 | P3- 90 | 22N 22 | P5-B | 25Y |
| A 63 | 3 | P3-106 | 22N 22 | P5-C | 25Y |
| A 64 | 3 | P3-108 | 22N 22 | E5 | 37N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900986 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR C | |
| SHEET 14 OF 16 | | | | | |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | TO | |
|--|---|---|--------|--------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | |
| NUMBER | | CIRCUIT POINT | | CIRCUIT POINT | |
| ITEM NO. | | ITEM NO. | | ITEM NO. | |
| A 65 | 3 | P3- 91 | 22N 22 | P5-D | 25Y |
| A 66 | 3 | P3- 80 | 22N 22 | P5-E | 25Y |
| A 67 | 3 | P3- 95 | 22N 22 | P5-F | 25Y |
| A 68 | 3 | P1-T* | 22N 23 | E5 | 37N |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900986 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE - NONE | | REV LTR C | |
| SHEET 15 OF 16 | | | | | |

| APPLICATION | | REVISONS | | | |
|-------------|-----------------|----------|---|-----------|-------------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 19XKMS-011 ① | A | CHANGE IN ACCORDANCE WITH CM-193766 | 19 FEB 64 | J.B. PZ |
| | | B | CHANGE IN ACCORDANCE WITH CM-1975367-1578 REVISED CUSTOMER DATA (V2-GA) | MAY 64 | BK PZ |
| | | C | CHANGE IN ACCORDANCE WITH CM 197757 TDFR 12702 | JUL 64 | HTO PZ |
| | | D | CHANGE IN ACCORDANCE WITH CM 199008 148TDR 12163 | JUL 64 | CMK J.J. |
| | | E | REVISED & UPGRADED TO CLASS A PER DTR 14344 | DEC 64 | BWT |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN _____

DRAWN BY P. Harnett DATE 1 NOV 63
 CHECKED BY L. C. Noy DATE 11 NOV 63
 APPROVAL _____
 DRAWING NO. 1364

REV _____

SHEET _____

OF SHEETS _____

STATUS REV _____

SHEET 1/2

SPACECRAFT CENTER HOUSTON, TEXAS

CABLE INTERCONNECT W54 ISS TESTING

CONTRACT NAS9-497

MIT APPROVAL _____

NASA APPROVAL _____

APPROVAL L. G. Linn / 1364

SCALE —

CODE IDENT NO. A

SIZE 1900986

REV E

SHEET 1 OF 16

| | | | |
|---------|---|---|---------------|
| GIJ | CABLE W-54 | C | 1900986 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267), .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH, COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 2 OF 16 |

| | | | |
|---------|---|---|---------------|
| GIJ | CABLE W-54 | D | 1900986 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | |
| 19 | SERIALIZE PER ND1002023. | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 5. | | |
| 21 | ITEM 26 FURNISHED WITH ITEM 4. | | |
| 22 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| 23 | NOTES 10 AND 16 BOTH APPLY | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 3 OF 16 |

| | | | |
|--|---------------|---|---------------|
| GIJ | CABLE W-54 | C | 1900986 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | |
| OVER 6 FEET +2.00-.00 | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 4 OF 16 |

| | | | |
|---------|---|---|---------------|
| GIJ | CABLE W-54 | E | 1900986 |
| PENNANT | LIST OF MATERIALS | | |
| NOTE | ITEM QTY PART NO DESCRIPTION | | |
| 1 | 1 1900986-001 WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/BLU, WHT/RED 128 FT TOTAL LENGTH | | |
| 2 | 1 1900986-002 WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT, 256 FT TOTAL LENGTH | | |
| 3 | 1 1900986-003 WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT 560 FT TOTAL LENGTH | | |
| 4 | 1 MS3126F22-555W (1897046-951) CONNECTOR PLUG | | |
| 5 | 1 MS3126F22-55PX (1897045-552) CONNECTOR PLUG | | |
| 23 | 6 1 1897173- 1 CONNECTOR-PLUG | | |
| 10 | 7 13 1000243-003 FERRULE, ELEC COND | | |
| 10 | 8 13 1000242-002 FERRULE, ELEC COND | | |
| 10 | 9 7 1000243-008 FERRULE, ELEC COND | | |
| 10 | 10 7 1000242-007 FERRULE, ELEC COND | | |
| 10 | 11 27 1010490-198 INSULATION-SLEEVING ELEC | | |
| 10 | 12 13 1010490-200 INSULATION-SLEEVING ELEC | | |
| 10 | 13 5 1010490-258 INSULATION-SLEEVING ELEC | | |
| 10 | 14 5 1016006-002 SPLICE REDUCER | | |
| 10 | 15 3 1016128-041 BAND-IDENTIFICATION | | |
| 10 | 16 1 1016128-011 BAND-IDENTIFICATION | | |
| 10 | 17 1 1016184-002 TRANSITION-HARNES, 2 FINGER (Y) | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 5 OF 16 |

| | | | | | | | |
|---------|------|-------------------|----------------------------|--|-----------|---------|---------------|
| GIJ | | CABLE W-54 | | E | | 1900986 | |
| PENMART | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 18 | 1 | 1900986-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1 INCH DIA 13 FT TOTAL LENGTH | | | |
| | 19 | 1 | 1900986-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 3/4 DIA 4 FT TOTAL LENGTH | | | |
| | 20 | 1 | 1900986-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA 4 FT TOTAL LENGTH | | | |
| | 21 | AR | MIL-T-713 | LACING TAPE TYPE B, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 22 | 109 | 1010738- 6 | CONTACT SOCKET | | | |
| 20 | 23 | | | CONTACT, PINS | | | |
| 22 | 24 | AR | 1897147-104, 106, 108, 112 | CABLE CLAMP SLEEVE | | | |
| 10 | 25 | 2 | 1016282-022 | RUBBER GROMMET | | | |
| 21 | 26 | | | CONTACT, SOCKET | | | |
| 10 | 27 | 1 | 1015902- 46 | TERMINAL LUG | | | |
| | 28 | 2 | 1900986-007 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 6 INCHES TOT. LGTH. | | | |
| | 29 | 1 | MS-24056-2 | CONNECTOR | | | |
| | 30 | 1 | MS-24018-1 | CONNECTOR, HOOD | | | |
| | 31 | 1 | 1900986-008 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 2 FEET TOT. LGTH. | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 | |
| | | | | SCALE-NONE | REV LTR | E | SHEET 6 OF 16 |

| GIJ | | CABLE W-54 | | | | | | | | | | C | | 1900986 | | |
|---|----------|------------|------------------------------------|-----|-------------------|---|----------|--|--------------------|------------------------------------|-------------------|---------------|-----|----------|---|---|
| CONDUCTOR | | | FROM | | | | | | TO | | | | | | 3 | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | | |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET CIRCUIT POINT | 2 | 1 | 2 | ITEM NO. | 1 | 2 | STRIP WIRE OR JACKET CIRCUIT POINT | 2 | 1 | 2 | ITEM NO. | 1 | 2 |
| A 1 | 3 | | P2-H* | 22N | 26 | | | | | P3- 68 | 22N | 22 | | | | |
| A 2 | 3 | | P2-J* | 22N | 26 | | | | | P3- 93 | | 22 | | | | |
| A 3 | | | DELETED | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | |
| A 3A | | | DELETED | | | | | | | | | | | | | |
| A 3W | | | DELETED | | | | | | | | | | | | | |
| A 4 | | | DELETED | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | |
| A 4A | | | DELETED | | | | | | | | | | | | | |
| A 4W | | | DELETED | | | | | | | | | | | | | |
| A 5 | 3 | | P2-N* | 22N | 26 | | | | | P3- 78 | 22N | 22 | | | | |
| A 6 | 3 | | P2-P* | 22N | 26 | | | | | P3- 4 | 22N | 22 | | | | |
| A 7 | 3 | | P2-Q* | 22N | 26 | | | | | P3- 57 | 22N | 22 | | | | |
| A 8 | 3 | | P2-R* | 22N | 26 | | | | | P3- 12 | 22N | 22 | | | | |
| A 9 | 3 | | P2-S* | 22N | 26 | | | | | P3- 7 | 22N | 22 | | | | |
| A 10 | 3 | | P2-T* | 22N | 26 | | | | | P3- 55 | 22N | 22 | | | | |
| A 11 | 3 | | P2-U* | 22N | 26 | | | | | P3- 45 | 22N | 22 | | | | |
| A 12 | 3 | | P2-V* | 22N | 26 | | | | | P3- 65 | 22N | 22 | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | | 1900986 | | | | |
| | | | | | | | | A | | | | | | | | |
| SCALE - NONE | | | | | | | | REV LTR | | C | | SHEET 7 OF 16 | | | | |

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CABLE W-54

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1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|-----|--------------------|-----|-------------------|------|--------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| ITEM NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| NUMBER | NO. | CIRCUIT POINT | 2 | 3 | 4 | 5 | CIRCUIT POINT | 6 | 7 |
| A 13 | 1 | | 230 | 200 | 9 10 | 5 | | 230 | 200 |
| | | | | | A 11 | | | A 11 | 7A |
| A 13A | 3 | SHLD A13 | 37N | | | | E1 | 37N | |
| A 13L | | P2-X* | 22N | 26 | | | P3- 97 | 22N | 22 |
| A 13R | | P2-W* | 22N | 26 | | | P3- 96 | 22N | 22 |
| A 14 | 1 | | 230 | 200 | 9 10 | 5 | | 230 | 200 |
| | | | | | A 11 | | | A 11 | 7A |
| A 14A | 3 | SHLD A14 | 37N | | | | E1 | 37N | |
| A 14L | | P2-Z* | 22N | 26 | | | P3- 11 | 22N | 22 |
| A 14R | | P2-Y* | 22N | 26 | | | P3- 10 | 22N | 22 |
| A 15 | 1 | | 280 | 250 | 9 10 | 5 | | 230 | 200 |
| | | | | | A 11 | | | A 11 | 7A |
| A 15A | 3 | SHLD A15 | 37N | | | | E1 | 37N | |
| A 15L | | P2-CC | 22N | 26 | | | P3- 71 | 22N | 22 |
| A 15R | | P2-BB | 22N | 26 | | | P3- 70 | 22N | 22 |
| A 16 | 1 | | 280 | 250 | 9 10 | 5 | | 280 | 250 |
| | | | | | A 11 | | | A 11 | 5 |
| A 16A | 3 | SHLD A16 | 37N | | | | E1 | 37N | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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CENTER
HOUSTON, TEXAS

SIZE
A

1900986

SCALE- NONE

REV LTR C

SHEET 8 OF 16

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CABLE W-54

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1900986

| CONDUCTOR | | | FROM | | | | | TO | | | | | 8 | |
|-------------------|----------|--|----------------------|-----|-----|-------------------|----|----------------------|---------------|-----|-------------------|----------|----------|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | CIRCUIT POINT | | STRIP WIRE OR JACKET | | | CIRCUIT POINT | | ITEM NO. | |
| NUMBER | ITEM NO. | | CIRCUIT POINT | | | ITEM NO. | | | CIRCUIT POINT | | | ITEM NO. | | |
| A 16L | | | P2-EE | 22N | 26 | | | | P3- 83 | 22N | 22 | | | |
| A 16R | | | P2-DD | 22N | 26 | | | | P3- 82 | 22N | 22 | | | |
| A 17 | 2 | | | 280 | 250 | 7 | 8 | 5 | | 280 | 250 | A 12 | 5 | |
| | | | | | | A 11 | | | | | | | | |
| A 17A | 3 | | SHLD A17 | 37N | | | | | E1 | 37N | | | | |
| A 17W | | | P2-FF | 22N | 26 | | | | P3- 76 | 22N | 22 | | | |
| A 18 | 3 | | P2-GG | 22N | 26 | | | | P3- 89 | 22N | 22 | | | |
| A 19 | 3 | | P2-B | 22N | 26 | | | | E1 | 22N | | | | |
| A 20 | 3 | | P4- 1 | 25N | 27 | | | | P3- 84 | 22N | 22 | | | |
| A 21 | 1 | | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A 11 | 5 | |
| | | | | | | A 11 | | | | | | | | |
| A 21A | 3 | | SHLD A21 | 37N | | | | | E2 | 37N | | | | |
| A 21L | | | P1-N | 22N | 23 | | | | P3- 28 | 22N | 22 | | | |
| A 21R | | | P1-M | 22N | 23 | | | | P3- 29 | 22N | 22 | | | |
| A 22 | 1 | | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A 11 | 7A | |
| | | | | | | A 11 | | | | | | | | |
| A 22A | 3 | | SHLD A22 | 37N | | | | | E2 | 37N | | | | |
| A 22L | | | P1-R | 22N | 23 | | | | P3- 2 | 22N | 22 | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900986

SCALE - NONE

REV LTR

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SHEET 9 OF 16

MIL-STD-883C, 2011

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CABLE W-54

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1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|--------|--|---------------|-------------|---------|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 22R | | P1-P | 22N | 23 | | P3-1 | 22N | 22 | |
| A 23 | 1 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| A 23A | 3 | SHLD A23 | 37N | | | E2 | 37N | | |
| A 23L | | P1-T | 22N | 23 | | P3-15 | 22N | 22 | |
| A 23R | | P1-S | 22N | 23 | | P3-14 | 22N | 22 | |
| A 24 | 3 | P1-U | 22N | 23 | | P3-9 | 22N | 22 | |
| A 25 | 3 | P1-V | 22N | 23 | | P3-25 | 22N | 22 | |
| A 26 | 3 | P1-W | 22N | 23 | | P3-79 | 22N | 22 | |
| A 27 | 2 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 12 7A |
| A 27A | 3 | SHLD A27 | 37N | | | E2 | 37N | | |
| A 27W | | P1-X | 22N | 23 | | P3-88 | 22N | 22 | |
| A 28 | 3 | P1-Y | 22N | 23 | | P3-46 | 22N | 22 | |
| A 29 | 3 | P1-A* | 22N | 23 | | P3-13 | 22N | 22 | |
| A 30 | 3 | P1-B* | 22N | 23 | | P3-6 | 22N | 22 | |
| A 31 | 3 | P1-C* | 22N | 23 | | P3-34 | 22N | 22 | |
| A 32 | 3 | P1-Z | 22N | 23 | | P3-18 | 22N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR C SHEET 10 OF 16 | | | |

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CABLE W-54

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| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-------|--|---------------|-------------|---------|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| A 33A | 3 | SHLD A33 | 37N | | | E2 | 37N | | |
| A 33W | | P1-D* | 22N | 23 | | P3-49 | 22N | 22 | |
| A 34 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| A 34A | 3 | SHLD A34 | 37N | | | E2 | 37N | | |
| A 34W | | P1-F* | 22N | 23 | | P3-104 | 22N | 22 | |
| A 35 | 3 | P1-G* | 22N | 23 | | P3-56 | 22N | 22 | |
| A 36 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| A 36A | 3 | SHLD A36 | 37N | | | E3 | 37N | | |
| A 36W | | P1-H* | 22N | 23 | | P3-92 | 22N | 22 | |
| A 37 | 3 | P1-I* | 22N | 23 | | P3-35 | 22N | 22 | |
| A 38 | 3 | P1-J* | 22N | 23 | | P3-36 | 22N | 22 | |
| A 39 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| A 39A | 3 | SHLD A39 | 37N | | | E3 | 37N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR C SHEET 11 OF 16 | | | |

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1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-------|--|---------------|-------------|---------|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 39W | | P1-K* | 22N | 23 | | P3-105 | 22N | 22 | |
| A 40 | 3 | P1-M* | 22N | 23 | | P3-37 | 22N | 22 | |
| A 41 | 3 | P1-N* | 22N | 23 | | P3-23 | 22N | 22 | |
| A 42 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | A 12 7A |
| A 42A | 3 | SHLD A42 | 37N | | | E3 | 37N | | |
| A 42W | | P1-P* | 22N | 23 | | P3-94 | 22N | 22 | |
| A 43 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | A 12 7A |
| A 43A | 3 | SHLD A43 | 37N | | | E3 | 37N | | |
| A 43W | | P1-Q* | 22N | 23 | | P3-22 | 22N | 22 | |
| A 44 | 3 | P1-R* | 22N | 23 | | P3-24 | 22N | 22 | |
| A 45 | | DELETED | | | | | | | |
| A 45A | | DELETED | | | | | | | |
| A 45L | | DELETED | | | | | | | |
| A 45R | | DELETED | | | | | | | |
| A 46 | 3 | P1-U* | 22N | 23 | | P3-58 | 22N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR C SHEET 12 OF 16 | | | |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|-------|--|---------------|-------------|---------|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 47 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | A 12 7A |
| A 47A | 3 | SHLD A47 | 37N | | | E3 | 37N | | |
| A 47W | | P1-V* | 22N | 23 | | E3-37N | 22N | 22 | |
| A 48 | 2 | | 380 | 350 | 7 8 5 | | 380 | 350 | A 12 7A |
| A 48A | 3 | SHLD A48 | 37N | | | E4 | 37N | | |
| A 48W | | P1-W* | 22N | 23 | | P3-103 | 22N | 22 | |
| A 49 | 2 | | 380 | 350 | 7 8 5 | | 380 | 350 | A 12 7A |
| A 49A | 3 | SHLD A49 | 37N | | | E4 | 37N | | |
| A 49W | | P1-X* | 22N | 23 | | P3-39 | 22N | 22 | |
| A 50 | 3 | P1-Y* | 22N | 23 | | P3-48 | 22N | 22 | |
| A 51 | 3 | P1-Z* | 22N | 23 | | P3-38 | 22N | 22 | |
| A 52 | 2 | | 380 | 350 | 7 8 5 | | 380 | 350 | A 12 7A |
| A 52A | 3 | SHLD A52 | 37N | | | E4 | 37N | | |
| A 52W | | P1-AA | 22N | 23 | | P3-59 | 22N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE-NONE REV LTR C SHEET 13 OF 16 | | | |

C 1900986

613

| CONDUCTOR | | | | FROM | | | | TO | | | | | |
|-------------------|----------|--------------------|----------|----------------------|-----|-------------------|---|--------------------|--------|----------------------|-----|-------------------|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | STRIP WIRE OR JACKET | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | CIRCUIT POINT | | CIRCUIT POINT | | ITEM NO. | | CIRCUIT POINT | | CIRCUIT POINT | | ITEM NO. | |
| A 53 | | | DELETED | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | |
| A 53A | | | DELETED | | | | | | | | | | |
| A 53W | | | DELETED | | | | | | | | | | |
| A 54 | 3 | | P1-CC | 22N | 23 | | | | P3- 47 | 22N | 22 | | |
| A 55 | 3 | | P1-DD | 22N | 23 | | | | P3- 69 | 22N | 22 | | |
| A 56 | 3 | | P1-EE | 22N | 23 | | | | P3- 5 | 22N | 22 | | |
| A 57 | 3 | | P1-FF | 22N | 23 | | | | P3- 27 | 22N | 22 | | |
| A 58 | 2 | | | 43C | 400 | 7 | 8 | 5 | | 43C | 400 | A 12 | 7A |
| | | | | | | A 11 | | | | | | | |
| A 58A | 3 | | SHLD A58 | 37N | | | | | E4 | 37N | | | |
| A 58W | | | P1-GG | 22N | 23 | | | | P3- 26 | 22N | 22 | | |
| A 59 | 3 | | P1-B | 22N | 23 | | | | E2 | 37N | | | |
| A 60 | 3 | | E2 | 37N | | | | | E3 | 37N | | | |
| A 61 | 3 | | E3 | 37N | | | | | E4 | 37N | | | |
| A 62 | 3 | | P3- 90 | 22N | 22 | | | | P5-B | 25Y | | | |
| A 63 | 3 | | P3-106 | 22N | 22 | | | | P5-C | 25Y | | | |
| A 64 | 3 | | P3-108 | 22N | 22 | | | | E5 | 37N | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

HANDED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900986

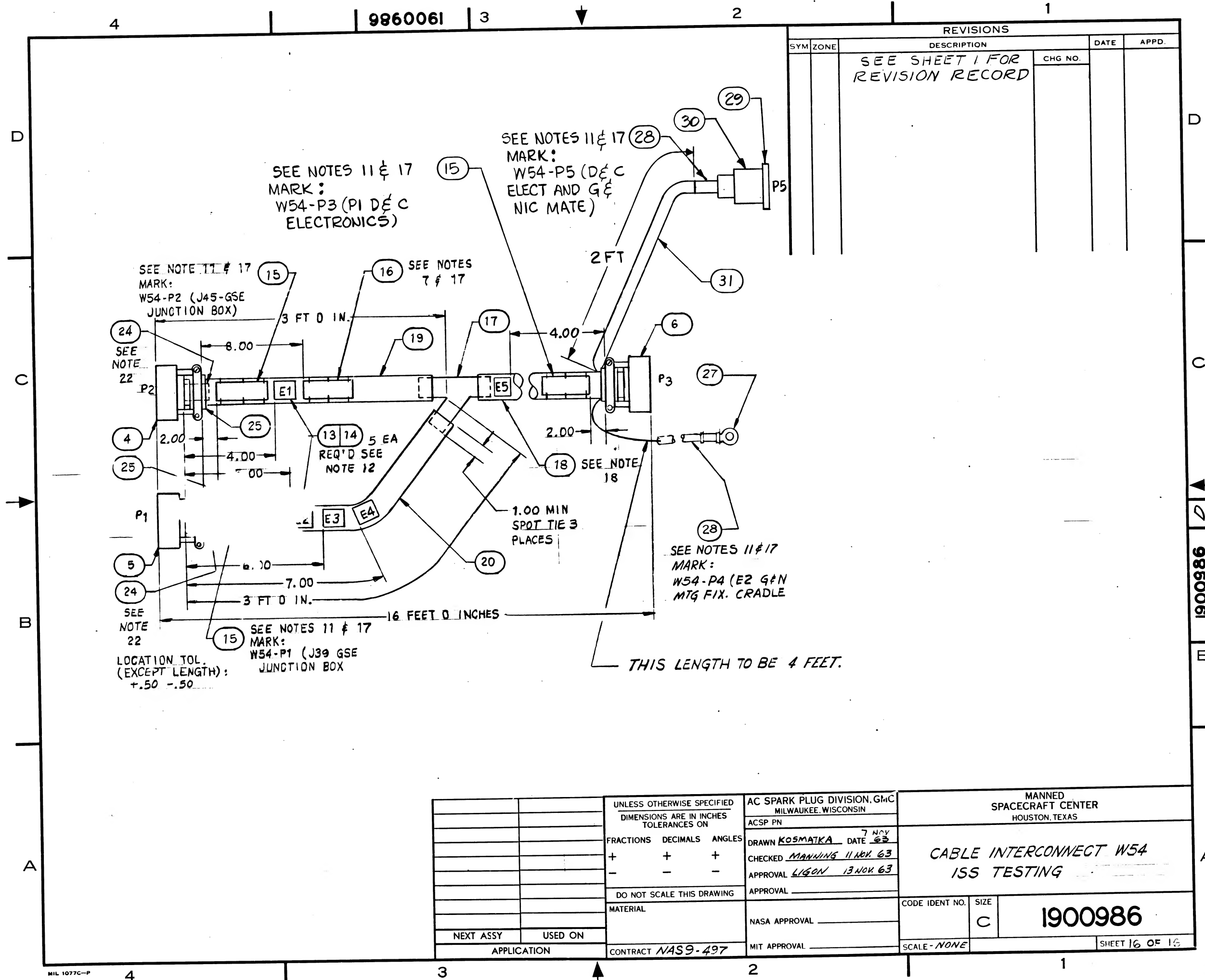
SCALE-NONE

REV LTR C

SHEET 14 OF 16

C 1900986

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| | | | |
|---------|---|---|---------------|
| GIJ | CABLE W-54 | C | 1900986 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH, COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR Y IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 2 OF 16 |

| | | | |
|---------|---|---|---------------|
| GIJ | CABLE W-54 | D | 1900986 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | |
| 19 | SERIALIZE PER ND1002023. | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 5. | | |
| 21 | ITEM 26 FURNISHED WITH ITEM 4. | | |
| 22 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| 23 | NOTES 10 AND 16 BOTH APPLY | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 3 OF 16 |

| | | | |
|--|---------------|---|---------------|
| GIJ | CABLE W-54 | C | 1900986 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| | WIRE OR CABLE | STRIP JACKET | CUT SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 4 OF 16 |

| | | | |
|---------|-------------------|---|---|
| GIJ | CABLE W-54 | F | 1900986 |
| PENNANT | LIST OF MATERIALS | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | 1 | 1900986-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JACKET 22AWG WHT/BLU, WHT/RED 128 FT TOTAL LENGTH |
| | 2 | 1900986-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JACKET 22AWG WHT, 256 FT TOTAL LENGTH |
| | 3 | 1900986-003 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG, WHT 560 FT TOTAL LENGTH |
| | 4 | MS3126F22-55SW (1897046-551) | CONNECTOR PLUG |
| | 5 | MS3126F22-55PX (1897045-552) | CONNECTOR PLUG |
| | 6 | 1897171- 1 | CONNECTOR-PLUG |
| | 7 | 1000243-003 | FERRULE, ELEC COND |
| | 8 | 1000242-002 | FERRULE, ELEC COND |
| | 9 | 1000243-008 | FERRULE, ELEC COND |
| | 10 | 1000242-007 | FERRULE, ELEC COND |
| | 11 | 1010490-198 | INSULATION-SLEEVING ELEC |
| | 12 | 1010490-200 | INSULATION-SLEEVING ELEC |
| | 13 | 1010490-258 | INSULATION-SLEEVING ELEC |
| | 14 | 1016006-002 | SPLICE REDUCER |
| | 15 | 1016128-041 | BAND-IDENTIFICATION |
| | 16 | 1016128-011 | BAND-IDENTIFICATION |
| | 17 | 1016184-002 | TRANSITION-HARNES, 2 FINGER (Y) |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900986 |
| | | SCALE-NONE | SHEET 5 OF 16 |

| | | | | | | | |
|-----------|------|-------------------|----------------------------|--|---------|---------|--|
| 61J | | CABLE W-54 | | E | | 1900986 | |
| PERMANENT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 18 | 1 | 1900986-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1 INCH DIA 13 FT TOTAL LENGTH | | | |
| | 19 | 1 | 1900986-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 3/4 DIA 4 FT TOTAL LENGTH | | | |
| | 20 | 1 | 1900986-006 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA 4 FT TOTAL LENGTH | | | |
| | 21 | AR | MIL-T-713 | LACING TAPE TYPE B, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 10 | 22 | 109 | 1010738- 6 | CONTACT SOCKET | | | |
| 20 | 23 | | | CONTACT, PINS | | | |
| 22 | 24 | AR | 1897147-104, 106, 108, 112 | CABLE CLAMP SLEEVE | | | |
| 10 | 25 | 2 | 1016282-022 | RUBBER GROMMET | | | |
| 21 | 26 | | | CONTACT, SOCKET | | | |
| 10 | 27 | 1 | 1015902- 46 | TERMINAL LUG | | | |
| | 28 | 2 | 1900986-007 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 6 INCHES TOT. LGTH. | | | |
| | 29 | 1 | MS-24056-2 | CONNECTOR | | | |
| | 30 | 1 | MS-24018-1 | CONNECTOR, HOOD | | | |
| | 31 | 1 | 1900986-008 | TUBING MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006, 2 FEET TOT. LGTH. | | | |
| | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900986 | |
| | | | | SCALE-NONE | REV LTR | E | |
| | | | | SHEET 6 OF 16 | | | |

| 61J | | CABLE W-54 | | C | | 1900986 | | | | | | |
|--|----------|------------|----------------------|-----|----|--|---|---------------|---------|---------------|----|--|
| CONDUCTOR | | | FROM | | | TO | | | 0 | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | ITEM NO. | | | NO. | | | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| A 1 | 3 | | P2-H* | 22N | 26 | | | | P3- 68 | 22N | 22 | |
| A 2 | 3 | | P2-J* | 22N | 26 | | | | P3- 93 | | 22 | |
| A 3 | | | DELETED | | | | | | | | | |
| | | | DELETED | | | | | | | | | |
| A 3A | | | DELETED | | | | | | | | | |
| A 3W | | | DELETED | | | | | | | | | |
| A 4 | | | DELETED | | | | | | | | | |
| | | | DELETED | | | | | | | | | |
| A 4A | | | DELETED | | | | | | | | | |
| A 4W | | | DELETED | | | | | | | | | |
| A 5 | 3 | | P2-N* | 22N | 26 | | | | P3- 78 | 22N | 22 | |
| A 6 | 3 | | P2-P* | 22N | 26 | | | | P3- 4 | 22N | 22 | |
| A 7 | 3 | | P2-Q* | 22N | 26 | | | | P3- 57 | 22N | 22 | |
| A 8 | 3 | | P2-R* | 22N | 26 | | | | P3- 12 | 22N | 22 | |
| A 9 | 3 | | P2-S* | 22N | 26 | | | | P3- 7 | 22N | 22 | |
| A 10 | 3 | | P2-T* | 22N | 26 | | | | P3- 55 | 22N | 22 | |
| A 11 | 3 | | P2-U* | 22N | 26 | | | | P3- 45 | 22N | 22 | |
| A 12 | 3 | | P2-V* | 22N | 26 | | | | P3- 65 | 22N | 22 | |
| <div>▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900986 | | | |
| | | | | | | SCALE - NONE | | REV LTR | C | SHEET 7 OF 16 | | |
| | | | | | | | | | | | | |

61J

CABLE W-54

C

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|---------------|-------------------|------|---------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13 | 1 | | 230 | 200 | 9 10 | 5 | | 230 | 200 |
| | | | | A 11 | | | | A 11 | 7A |
| A 13A | 3 | SHLD A13 | 37N | | | E1 | 37N | | |
| A 13L | | P2-X* | 22N | 26 | | P3- 97 | 22N | 22 | |
| A 13R | | P2-W* | 22N | 26 | | P3- 96 | 22N | 22 | |
| A 14 | 1 | | 230 | 200 | 9 10 | 5 | | 230 | 200 |
| | | | | A 11 | | | | A 11 | 7A |
| A 14A | 3 | SHLD A14 | 37N | | | E1 | 37N | | |
| A 14L | | P2-Z* | 22N | 26 | | P3- 11 | 22N | 22 | |
| A 14R | | P2-Y* | 22N | 26 | | P3- 10 | 22N | 22 | |
| A 15 | 1 | | 280 | 250 | 9 10 | 5 | | 230 | 200 |
| | | | | A 11 | | | | A 11 | 7A |
| A 15A | 3 | SHLD A15 | 37N | | | E1 | 37N | | |
| A 15L | | P2-CC | 22N | 26 | | P3- 71 | 22N | 22 | |
| A 15R | | P2-BB | 22N | 26 | | P3- 70 | 22N | 22 | |
| A 16 | 1 | | 280 | 250 | 9 10 | 5 | | 280 | 250 |
| | | | | A 11 | | | | A 11 | 5 |
| A 16A | 3 | SHLD A16 | 37N | | | E1 | 37N | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
 SPACECRAFT
 CENTER
 HOUSTON, TEXAS

SIZE

A

1900986

SCALE - NONE

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SHEET 8 OF 1

| 61J | | CABLE W-54 | | | | | | | | | | C | 1900986 | | | | | | | | | | | | | | |
|-------------------|----------|------------|---------------------|-----|-----|---|------|-------------|--|---|--|---|---------------------|--|---------------|--------|-----|-------------|------|----------|--|---------|--|---------------|--|--|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | | | | | |
| | | | STEP WIRE OR JACKET | | | | | SPEC. | | | | | STEP WIRE OR JACKET | | | | | SPEC. | | | | | | | | | |
| NUMBER | ITEM NO. | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | | |
| A 16L | | | P2-EE | 22N | 26 | | | | | | | | | | | P3- 83 | 22N | 22 | | | | | | | | | |
| A 16R | | | P2-DD | 22N | 26 | | | | | | | | | | | P3- 82 | 22N | 22 | | | | | | | | | |
| A 17 | 2 | | | 280 | 250 | 7 | 8 | 5 | | | | | | | | | 280 | 250 | A 12 | 5 | | | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | |
| A 17A | 3 | | SHLD A17 | 37N | | | | | | | | | | | | E1 | 37N | | | | | | | | | | |
| A 17W | | | P2-FF | 22N | 26 | | | | | | | | | | | P3- 76 | 22N | 22 | | | | | | | | | |
| A 18 | 3 | | P2-GG | 22N | 26 | | | | | | | | | | | P3- 89 | 22N | 22 | | | | | | | | | |
| A 19 | 3 | | P2-B | 22N | 26 | | | | | | | | | | | E1 | 22N | | | | | | | | | | |
| A 20 | 3 | | P4- 1 | 25N | 27 | | | | | | | | | | | P3- 84 | 22N | 22 | | | | | | | | | |
| A 21 | 1 | | | 230 | 200 | 9 | 10 | 5 | | | | | | | | | 230 | 200 | A 11 | 5 | | | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | |
| A 21A | 3 | | SHLD A21 | 37N | | | | | | | | | | | | E2 | 37N | | | | | | | | | | |
| A 21L | | | P1-N | 22N | 23 | | | | | | | | | | | P3- 28 | 22N | 22 | | | | | | | | | |
| A 21R | | | P1-M | 22N | 23 | | | | | | | | | | | P3- 29 | 22N | 22 | | | | | | | | | |
| A 22 | 1 | | | 230 | 200 | 9 | 10 | 5 | | | | | | | | | 230 | 200 | A 11 | 7A | | | | | | | |
| | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | |
| A 22A | 3 | | SHLD A22 | 37N | | | | | | | | | | | | E2 | 37N | | | | | | | | | | |
| A 22L | | | P1-R | 22N | 23 | | | | | | | | | | | P3- 2 | 22N | 22 | | | | | | | | | |
| | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | 1900986 | | | | | |
| | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR | | C | | SHEET 9 OF 16 | | | |

GIJ

CABLE W-54

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------|-----|---------------------|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 22R | | P1-P | 22N | 23 | | P3- 1 | 22N | 22 | |
| A 23 | 1 | | 230 200 | 9 10 | 5 | | 230 200 | A 11 | 7A |
| | | | | A 11 | | | | | |
| A 23A | 3 | SHLD A23 | 37N | | | E2 | 37N | | |
| A 23L | | P1-T | 22N | 23 | | P3- 15 | 22N | 22 | |
| A 23R | | P1-S | 22N | 23 | | P3- 14 | 22N | 22 | |
| A 24 | 3 | P1-U | 22N | 23 | | P3- 9 | 22N | 22 | |
| A 25 | 3 | P1-V | 22N | 23 | | P3- 25 | 22N | 22 | |
| A 26 | 3 | P1-W | 22N | 23 | | P3- 79 | 22N | 22 | |
| A 27 | 2 | | 230 200 | 7 8 | 5 | | 230 200 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 27A | 3 | SHLD A27 | 37N | | | E2 | 37N | | |
| A 27W | | P1-X | 22N | 23 | | P3- 88 | 22N | 22 | |
| A 28 | 3 | P1-Y | 22N | 23 | | P3- 46 | 22N | 22 | |
| A 29 | 3 | P1-A* | 22N | 23 | | P3- 13 | 22N | 22 | |
| A 30 | 3 | P1-B* | 22N | 23 | | P3- 6 | 22N | 22 | |
| A 31 | 3 | P1-C* | 22N | 23 | | P3- 34 | 22N | 22 | |
| A 32 | 3 | P1-Z | 22N | 23 | | P3- 18 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATT SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR C SHEET 10 OF 16

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CABLE W-54

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| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------|-----|---------------------|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | 2 | | 280 250 | 7 8 | 5 | | 280 250 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 33A | 3 | SHLD A33 | 37N | | | E2 | 37N | | |
| A 33W | | P1-D* | 22N | 23 | | P3- 49 | 22N | 22 | |
| A 34 | 2 | | 280 250 | 7 8 | 5 | | 280 250 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 34A | 3 | SHLD A34 | 37N | | | E2 | 37N | | |
| A 34W | | P1-F* | 22N | 23 | | P3-104 | 22N | 22 | |
| A 35 | 3 | P1-G* | 22N | 23 | | P3- 56 | 22N | 22 | |
| A 36 | 2 | | 280 250 | 7 8 | 5 | | 280 250 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 36A | 3 | SHLD A36 | 37N | | | E3 | 37N | | |
| A 36W | | P1-H* | 22N | 23 | | P3- 92 | 22N | 22 | |
| A 37 | 3 | P1-I* | 22N | 23 | | P3- 35 | 22N | 22 | |
| A 38 | 3 | P1-J* | 22N | 23 | | P3- 36 | 22N | 22 | |
| A 39 | 2 | | 280 250 | 7 8 | 5 | | 280 250 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 39A | 3 | SHLD A39 | 37N | | | E3 | 37N | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATT SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR C SHEET 11 OF 16

GIJ

CABLE W-54

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------|-----|---------------------|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 39W | | P1-K* | 22N | 23 | | P3-105 | 22N | 22 | |
| A 40 | 3 | P1-M* | 22N | 23 | | P3- 37 | 22N | 22 | |
| A 41 | 3 | P1-N* | 22N | 23 | | P3- 23 | 22N | 22 | |
| A 42 | 2 | | 330 300 | 7 8 | 5 | | 330 300 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 42A | 3 | SHLD A42 | 37N | | | E3 | 37N | | |
| A 42W | | P1-P* | 22N | 23 | | P3- 94 | 22N | 22 | |
| A 43 | 2 | | 330 300 | 7 8 | 5 | | 330 300 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 43A | 3 | SHLD A43 | 37N | | | E3 | 37N | | |
| A 43W | | P1-Q* | 22N | 23 | | P3- 22 | 22N | 22 | |
| A 44 | 3 | P1-R* | 22N | 23 | | P3- 24 | 22N | 22 | |
| A 45 | | DELETED | | | | | | | |
| | | DELETED | | | | | | | |
| A 45A | | DELETED | | | | | | | |
| A 45L | | DELETED | | | | | | | |
| A 45R | | DELETED | | | | | | | |
| A 46 | 3 | P1-U* | 22N | 23 | | P3- 58 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATT SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR C SHEET 12 OF 16

GIJ

CABLE W-54

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------|-----|---------------------|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 47 | 2 | | 330 300 | 7 8 | 5 | | 330 300 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 47A | 3 | SHLD A47 | 37N | | | E3 | 37N | | |
| A 47W | | P1-V* | 22N | 23 | | E5-37N | 22N | 22 | |
| A 48 | 2 | | 380 350 | 7 8 | 5 | | 380 350 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 48A | 3 | SHLD A48 | 37N | | | E4 | 37N | | |
| A 48W | | P1-W* | 22N | 23 | | P3-103 | 22N | 22 | |
| A 49 | 2 | | 380 350 | 7 8 | 5 | | 380 350 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 49A | 3 | SHLD A49 | 37N | | | E4 | 37N | | |
| A 49W | | P1-X* | 22N | 23 | | P3- 39 | 22N | 22 | |
| A 50 | 3 | P1-Y* | 22N | 23 | | P3- 48 | 22N | 22 | |
| A 51 | 3 | P1-Z* | 22N | 23 | | P3- 38 | 22N | 22 | |
| A 52 | 2 | | 380 350 | 7 8 | 5 | | 380 350 | A 12 | 7A |
| | | | | A 11 | | | | | |
| A 52A | 3 | SHLD A52 | 37N | | | E4 | 37N | | |
| A 52W | | P1-AA | 22N | 23 | | P3- 59 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATT SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE REV LTR C SHEET 13 OF 16

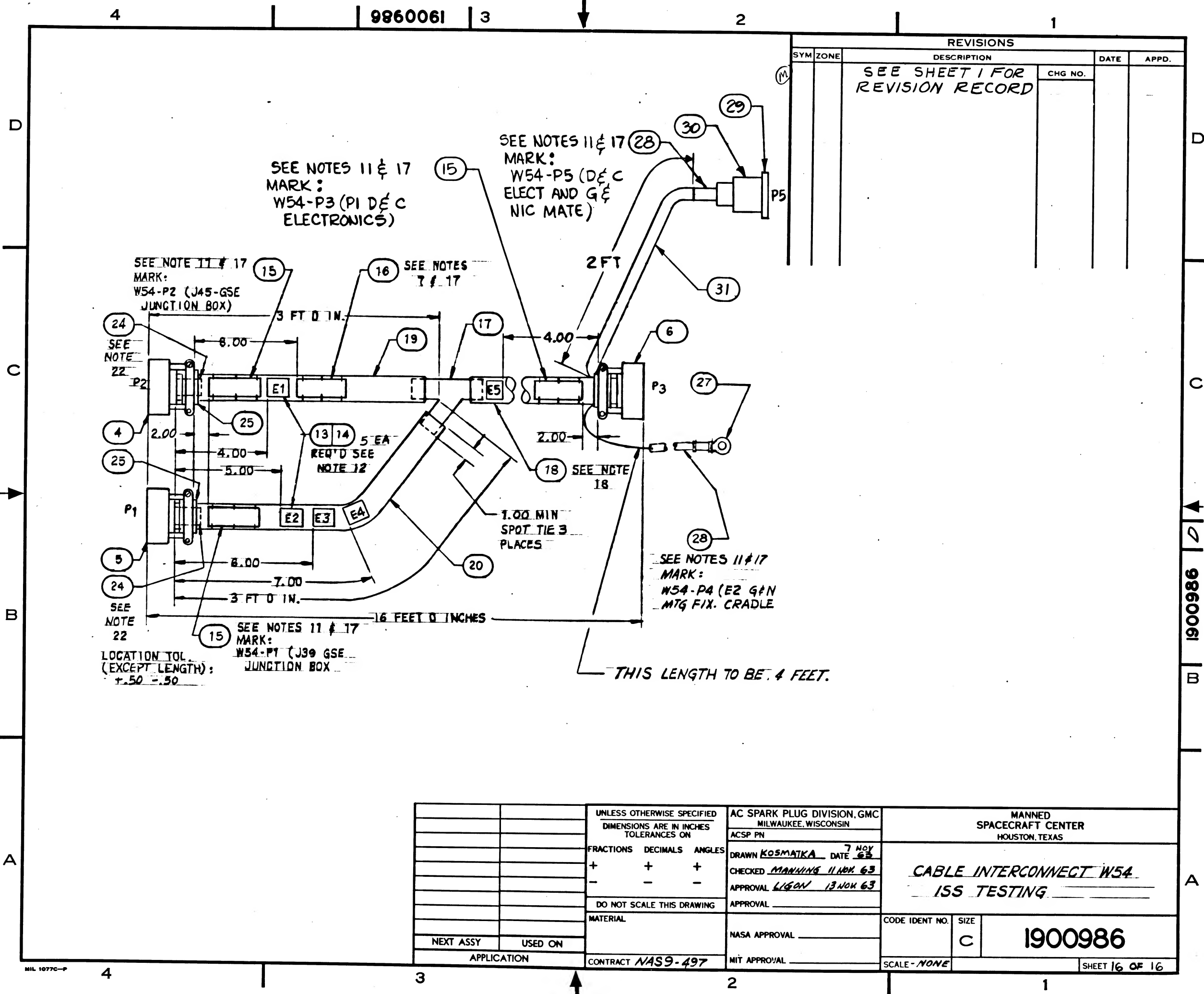
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CABLE W-54

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1900986

| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----------|---|----------------------|-----|-----|----|---|---|--|--|--|--|----------------------|-----|------|----|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | |
| | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| | | | TERMINATION SPEC. | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | |
| A 53 | | | DELETED | | | | | | | | | | | | | | | | | | | |
| | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 53A | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 53W | | | DELETED | | | | | | | | | | | | | | | | | | | |
| A 54 | 3 | | P1-CC | 22N | | 23 | | | | | | | P3- 47 | 22N | | 22 | | | | | | |
| A 55 | 3 | | P1-DD | 22N | | 23 | | | | | | | P3- 69 | 22N | | 22 | | | | | | |
| A 56 | 3 | | P1-EE | 22N | | 23 | | | | | | | P3- 5 | 22N | | 22 | | | | | | |
| A 57 | 3 | | P1-FF | 22N | | 23 | | | | | | | P3- 27 | 22N | | 22 | | | | | | |
| A 58 | 2 | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 12 | 7A | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| A 58A | 3 | | SHLD A58 | 37N | | | | | | | | | E4 | 37N | | | | | | | | |
| A 58W | | | P1-GG | 22N | | 23 | | | | | | | P3- 26 | 22N | | 22 | | | | | | |
| A 59 | 3 | | P1-B | 22N | | 23 | | | | | | | E2 | 37N | | | | | | | | |
| A 60 | 3 | | E2 | 37N | | | | | | | | | E3 | 37N | | | | | | | | |
| A 61 | 3 | | E3 | 37N | | | | | | | | | E4 | 37N | | | | | | | | |
| A 62 | 3 | | P3- 90 | 22N | | 22 | | | | | | | P5-B | 25Y | | | | | | | | |
| A 63 | 3 | | P3-106 | 22N | | 22 | | | | | | | P5-C | 25Y | | | | | | | | |
| A 64 | 3 | | P3-108 | 22N | | 22 | | | | | | | E5 | 37N | | | | | | | | |
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| REVISIONS | | | | |
|---------------------------------|------|-------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| SEE SHEET 1 FOR REVISION RECORD | | | | |
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|-------------|---------|---|---|---|---------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | ACSP PN | | |
| | | + + + | DRAWN <u>KOSMATKA</u> DATE <u>7 NOV 63</u> | CABLE INTERCONNECT W54 ISS TESTING | |
| | | - - - | CHECKED <u>MANNING</u> 11 NOV 63 | | |
| | | DO NOT SCALE THIS DRAWING | APPROVAL <u>LIGON</u> 13 NOV 63 | | |
| | | MATERIAL | APPROVAL | | |
| NEXT ASSY | USED ON | | NASA APPROVAL | CODE IDENT NO. | SIZE |
| APPLICATION | | CONTRACT <u>NAS9-497</u> | MIT APPROVAL | | C |
| | | | | SCALE - <u>NONE</u> | 1900986 |
| | | | | SHEET 16 OF 16 | |

| APPLICATION | | REVISIONS | | | |
|---------------------------------|-------------|---------------|---|-----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM-193766 | 18 FEB 64 | J.B. |
| | | B | CHANGE IN ACCORDANCE WITH CM-197536 | 27 MAY 64 | SK |
| | | C | REVISED CUSTOMER DATA (V2-64) | 64 | PT |
| | | D | CHANGE IN ACCORDANCE WITH CM-197757 | 9 JUL 64 | HTO |
| | | E | CHANGE IN ACCORDANCE WITH CM-199018 | 20 FEB 64 | PT |
| | | F | REVISED & UPGRADED TO CLASS A PER TDRR 14.9.4.4 | 31 DEC 64 | MEM |
| | | G | REVISED PER TDRR 15391 | 27 FEB 64 | PT |
| | | H | REPLACE WITH CHANGE PER TDRR 15316 | 27 FEB 64 | PT |
| G REPLACED WITH CHANGE BY REV H | | | | | |
| AC SPARK PLUS DIVISION, GMC | | | | | |
| MILWAUKEE, WISCONSIN | | | | | |
| SPACECRAFT CENTER | | | | | |
| HOUSTON, TEXAS | | | | | |
| CABLE INTERCONNECT W54 | | | | | |
| ISS TESTING | | | | | |
| CODE IDENT NO. | | SIZE | | REV | |
| A | | A | | G | |
| NASA APPROVAL | | MIT APPROVAL | | CONTRACT | |
| 1/1/64 | | 1/1/64 | | NAS9-497 | |
| SCALE | | SHEET 1 OF 16 | | | |

NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE - NONE | REV LTR | + |
| SHEET 2 OF 15 | | |

MIL 2084 4-63

GENERAL NOTES

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE - NONE | REV LTR | + |
| SHEET 3 OF 15 | | |

MIL 2084 4-63

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|--|-------------|-----------|-------------|---|--|----------|--|
| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | | | | |
| 1900005-011 | 1900005-011 | | | | | | |
| FOR INFORMATION ONLY CLASS B RELEASE TDR No. 05663 DATE 1/7/64 | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | | | CABLE INTERCONNECT W54 ISS TESTING | | | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN BY: [Signature] 7 NOV 63 | | | | CHECKED BY: [Signature] 11 NOV 63 | | | |
| APPROVAL BY: [Signature] 13 NOV 63 | | | | APPROVAL BY: [Signature] 13 NOV 63 | | | |
| NASA APPROVAL BY: [Signature] 13 NOV 63 | | | | NASA APPROVAL BY: [Signature] 13 NOV 63 | | | |
| MIT APPROVAL BY: [Signature] 13 NOV 63 | | | | MIT APPROVAL BY: [Signature] 13 NOV 63 | | | |
| CONTRACT NAS9-497 | | | | SHEET 1 OF 15 | | | |

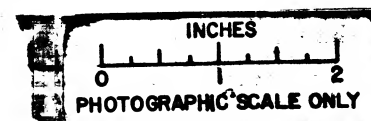
GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|-------------------------|-------------|---------------|----------|
| | WIRE OR CABLE | STRIP WIRE JACKET | CUT WIRE | CUT SHIELD | |
| UNDER 1 INCH | + .06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE - NONE | REV LTR | + |
| SHEET 4 OF 15 | | |

MIL 2084 4-63



| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 19 | 1 | 1900986-005 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 7/16 DIA 4 FT TOTAL LENGTH |
| | 20 | 1 | 1900986-006 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 9/16 DIA 4 FT TOTAL LENGTH |
| | 21 | AR | MIL-T-713 | LACING TAPE TYPE B, CLASS 2, BLACK (ES-2732 NO. 18) |
| 10 | 22 | 108 | 1010464-2 | CONTACT SOCKET |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR + | SHEET 6 OF 15 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|----------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900986-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JACKET, 22 AWG WHT/BLU,WHT/RED 128 FT TOTAL LENGTH |
| | 2 | 1 | 1900986-002 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JACKET, 22 AWG WHT, 256 FT TOTAL LENGTH |
| | 3 | 1 | 1900986-003 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG, WHT, 528 FT TOTAL LENGTH |
| 10 | 4 | 1 | MS3126F22-55SW | (1897046-551) CONNECTOR PLUG |
| 10 | 5 | 1 | MS3126F22-55PX | (1897045-552) CONNECTOR PLUG |
| 16 | 6 | 1 | 1010411-1 | CONNECTOR-PLUG |
| 10 | 7 | 16 | 1000243-003 | FERRULE, ELEC COND |
| 10 | 8 | 16 | 1000242-002 | FERRULE, ELEC COND |
| 10 | 9 | 8 | 1000243-008 | FERRULE, ELEC COND |
| 10 | 10 | 8 | 1000242-007 | FERRULE, ELEC COND |
| 10 | 11 | 32 | 1010490-198 | INSULATION-SLEEVING ELEC |
| 10 | 12 | 16 | 1010490-200 | INSULATION-SLEEVING ELEC |
| 10 | 13 | 4 | 1010490-258 | INSULATION-SLEEVING ELEC |
| 10 | 14 | 4 | 1016006-002 | SPLICE REDUCER |
| 10 | 15 | 3 | 1016128-041 | BAND-IDENTIFICATION |
| 10 | 16 | 1 | 1016128-011 | BAND-IDENTIFICATION |
| 10 | 17 | 1 | 1016184-002 | TRANSITION-HARNESS, 2 FINGER (Y) |
| | 18 | 1 | 1900986-004 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC FLEXIBLE 11/16 DIA 13 FT TOTAL LENGTH |

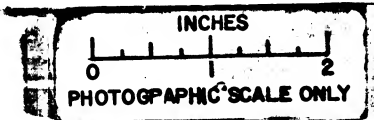
| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR + | SHEET 5 OF 15 |

| CABLE W54 | | | | | | | | | | | | | | | 1900986 | |
|-------------------|----------|--|----------------------|---------------|-----|-------------------|------|---|----------------------|---------------|-----|-------------------|----|--|---------|--|
| CONDUCTOR | | | FROM | | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | | ITEM NO. | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | ITEM NO. | | | | |
| A 1 | 3 | | P2-H* | 22N | | | | | P3- 68 | 22N | | 22 | | | | |
| A 2 | 3 | | P2-J* | 22N | | | | | P3- 93 | | | 22 | | | | |
| A 3 | 2 | | | 230 | 200 | 7 | 8 | 5 | | 230 | 200 | A 12 | 7A | | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 3A | 3 | | SHLD A3 | 37N | | | | | E1 | 37N | | | | | | |
| A 3W | | | P2-K* | 22N | | | | | P3- 90 | 22N | | 22 | | | | |
| A 4 | 2 | | | 230 | 200 | 7 | 8 | 5 | | 230 | 200 | A 12 | 7A | | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 4A | 3 | | SHLD A4 | 37N | | | | | E1 | 37N | | | | | | |
| A 4W | | | P2-M* | 22N | | | | | P3-106 | 22N | | 22 | | | | |
| A 5 | 3 | | P2-N* | 22N | | | | | P3- 78 | 22N | | 22 | | | | |
| A 6 | 3 | | P2-P* | 22N | | | | | P3- 4 | 22N | | 22 | | | | |
| A 7 | 3 | | P2-Q* | 22N | | | | | P3- 57 | 22N | | 22 | | | | |
| A 8 | 3 | | P2-R* | 22N | | | | | P3- 12 | 22N | | 22 | | | | |
| A 9 | 3 | | P2-S* | 22N | | | | | P3- 7 | 22N | | 22 | | | | |
| A 10 | 3 | | P2-T* | 22N | | | | | P3- 55 | 22N | | 22 | | | | |
| A 11 | 3 | | P2-U* | 22N | | | | | P3- 45 | 22N | | 22 | | | | |
| A 12 | 3 | | P2-V* | 22N | | | | | P3- 65 | 22N | | 22 | | | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR + | SHEET 7 OF 15 |

| CABLE W54 | | | | | | | | | | | | | | | 1900986 | |
|-------------------|----------|--|----------------------|---------------|-----|-------------------|------|---|----------------------|---------------|-----|-------------------|----|--|---------|--|
| CONDUCTOR | | | FROM | | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | | ITEM NO. | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | ITEM NO. | | | | |
| A 13 | 1 | | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A 11 | 7A | | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 13A | 3 | | SHLD A13 | 37N | | | | | E1 | 37N | | | | | | |
| A 13L | | | P2-X* | 22N | | | | | P3- 97 | 22N | | 22 | | | | |
| A 13R | | | P2-W* | 22N | | | | | P3- 96 | 22N | | 22 | | | | |
| A 14 | 1 | | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A 11 | 7A | | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 14A | 3 | | SHLD A14 | 37N | | | | | E1 | 37N | | | | | | |
| A 14L | | | P2-Z* | 22N | | | | | P3- 11 | 22N | | 22 | | | | |
| A 14R | | | P2-Y* | 22N | | | | | P3- 10 | 22N | | 22 | | | | |
| A 15 | 1 | | | 280 | 250 | 9 | 10 | 5 | | 230 | 200 | A 11 | 7A | | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 15A | 3 | | SHLD A15 | 37N | | | | | E1 | 37N | | | | | | |
| A 15L | | | P2-CC | 22N | | | | | P3- 71 | 22N | | 22 | | | | |
| A 15R | | | P2-BB | 22N | | | | | P3- 70 | 22N | | 22 | | | | |
| A 16 | 1 | | | 280 | 250 | 9 | 10 | 5 | | 280 | 250 | A 11 | 5 | | | |
| | | | | | | | A 11 | | | | | | | | | |
| A 16A | 3 | | SHLD A16 | 37N | | | | | E1 | 37N | | | | | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900986 |
| SCALE-NONE | REV LTR + | SHEET 8 OF 15 |



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CABLE W54

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---|---------------|-------------------|--------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 22R | | P1-P | 22N | | | P3- 1 | 22N | 22 | |
| A 23 | 1 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| | | | | A 11 | | | | | |
| A 23A | 3 | SHLD A23 | 37N | | | E2 | 37N | | |
| A 23L | | P1-T | 22N | | | P3- 15 | 22N | 22 | |
| A 23R | | P1-S | 22N | | | P3- 14 | 22N | 22 | |
| A 24 | 3 | P1-U | 22N | | | P3- 9 | 22N | 22 | |
| A 25 | 3 | P1-V | 22N | | | P3- 25 | 22N | 22 | |
| A 26 | 3 | P1-W | 22N | | | P3- 79 | 22N | 22 | |
| A 27 | 2 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 12 7A |
| | | | | A 11 | | | | | |
| A 27A | 3 | SHLD A27 | 37N | | | E2 | 37N | | |
| A 27M | | P1-X | 22N | | | P3- 88 | 22N | 22 | |
| A 28 | 3 | P1-Y | 22N | | | P3- 46 | 22N | 22 | |
| A 29 | 3 | P1-A* | 22N | | | P3- 13 | 22N | 22 | |
| A 30 | 3 | P1-B* | 22N | | | P3- 6 | 22N | 22 | |
| A 31 | 3 | P1-C* | 22N | | | P3- 34 | 22N | 22 | |
| A 32 | 3 | P1-Z | 22N | | | P3- 18 | 22N | 22 | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | SCALE - NONE | | | | REV LTR + | | | |
| | | | | | | SHEET 10 OF 15 | | | |

MIL 2085 - 4-65 WIR

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CABLE W54

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---|---------------|-------------------|-------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 33 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| | | | | A 11 | | | | | |
| A 33A | 3 | SHLD A33 | 37N | | | E2 | 37N | | |
| A 33M | | P1-D* | 22N | | | P3- 49 | 22N | 22 | |
| A 34 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| | | | | A 11 | | | | | |
| A 34A | 3 | SHLD A34 | 37N | | | E2 | 37N | | |
| A 34M | | P1-F* | 22N | | | P3-104 | 22N | 22 | |
| A 35 | 3 | P1-G* | 22N | | | P3- 56 | 22N | 22 | |
| A 36 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| | | | | A 11 | | | | | |
| A 36A | 3 | SHLD A36 | 37N | | | E3 | 37N | | |
| A 36M | | P1-H* | 22N | | | P3- 92 | 22N | 22 | |
| A 37 | 3 | P1-I* | 22N | | | P3- 35 | 22N | 22 | |
| A 38 | 3 | P1-J* | 22N | | | P3- 36 | 22N | 22 | |
| A 39 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 7A |
| | | | | A 11 | | | | | |
| A 39A | 3 | SHLD A39 | 37N | | | E3 | 37N | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | SCALE - NONE | | | | REV LTR + | | | |
| | | | | | | SHEET 11 OF 15 | | | |

MIL 2085 - 4-65 WIR

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CABLE W54

1900986

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---|---------------|-------------------|--------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 16L | | P2-EE | 22N | | | P3- 83 | 22N | 22 | |
| A 16R | | P2-DD | 22N | | | P3- 82 | 22N | 22 | |
| A 17 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | A 12 5 |
| | | | | A 11 | | | | | |
| A 17A | 3 | SHLD A17 | 37N | | | E1 | 37N | | |
| A 17M | | P2-FF | 22N | | | P3- 76 | 22N | 22 | |
| A 18 | 3 | P2-GG | 22N | | | P3- 89 | 22N | 22 | |
| A 19 | 3 | P2-B | 22N | | | E1 | 22N | | |
| A 20 | 3 | P1-A | 22N | | | P3- 84 | 22N | 22 | |
| A 21 | 1 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 5 |
| | | | | A 11 | | | | | |
| A 21A | 3 | SHLD A21 | 37N | | | E2 | 37N | | |
| A 21L | | P1-N | 22N | | | P3- 28 | 22N | 22 | |
| A 21R | | P1-M | 22N | | | P3- 29 | 22N | 22 | |
| A 22 | 1 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| | | | | A 11 | | | | | |
| A 22A | 3 | SHLD A22 | 37N | | | E2 | 37N | | |
| A 22L | | P1-R | 22N | | | P3- 2 | 22N | 22 | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | SCALE - NONE | | | | REV LTR + | | | |
| | | | | | | SHEET 9 OF 15 | | | |

MIL 2085 - 4-65 WIR

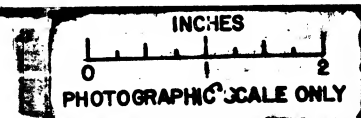
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CABLE W54

1900986

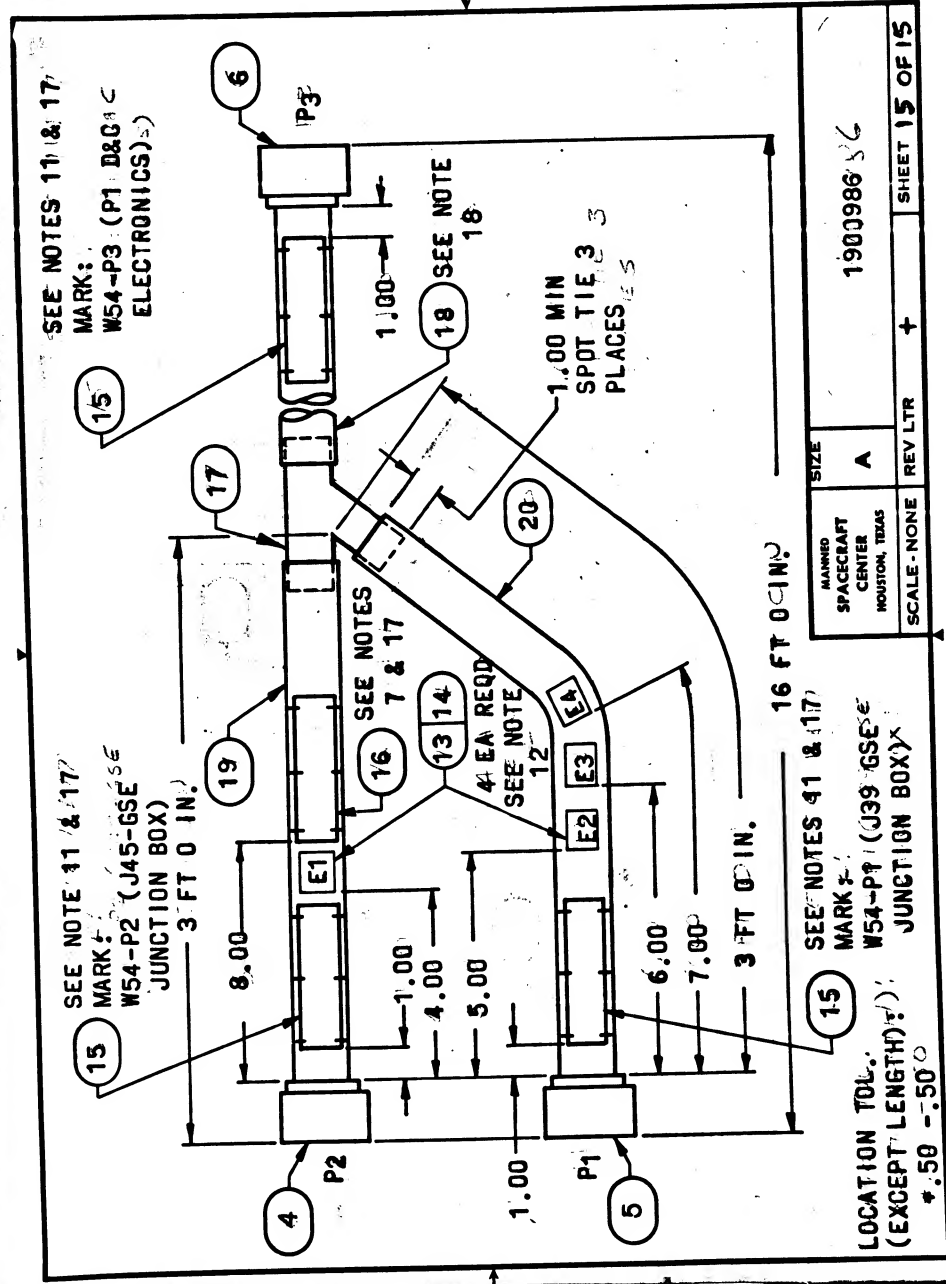
| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---|---------------|-------------------|--------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 39M | | P1-K* | 22N | | | P3-105 | 22N | 22 | |
| A 40 | 3 | P1-M* | 22N | | | P3- 37 | 22N | 22 | |
| A 41 | 3 | P1-N* | 22N | | | P3- 23 | 22N | 22 | |
| A 42 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | A 12 7A |
| | | | | A 11 | | | | | |
| A 42A | 3 | SHLD A42 | 37N | | | E3 | 37N | | |
| A 42M | | P1-P* | 22N | | | P3- 94 | 22N | 22 | |
| A 43 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | A 12 7A |
| | | | | A 11 | | | | | |
| A 43A | 3 | SHLD A43 | 37N | | | E3 | 37N | | |
| A 43M | | P1-Q* | 22N | | | P3- 22 | 22N | 22 | |
| A 44 | 3 | P1-R* | 22N | | | P3- 24 | 22N | 22 | |
| A 45 | 1 | | 330 | 300 | 9 10 5 | | 330 | 300 | A 11 7A |
| | | | | A 11 | | | | | |
| A 45A | 3 | SHLD A45 | 37N | | | E3 | 37N | | |
| A 45L | | P1-T* | 22N | | | P3- 80 | 22N | 22 | |
| A 45R | | P1-S* | 22N | | | P3- 95 | 22N | 22 | |
| A 46 | 3 | P1-U* | 22N | | | P3- 58 | 22N | 22 | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900986 | | | |
| | | SCALE - NONE | | | | REV LTR + | | | |
| | | | | | | SHEET 12 OF 15 | | | |

MIL 2085 - 4-65 WIR



| CONDUCTOR | | | FROM | | | | TO | | | | | |
|-------------------|---|----------|--------------------|-----|----------|--------------------|----|----------|-----------------|---|------|-----------|
| INDIVIDUAL LENGTH | | ITEM NO. | CUT WIRE OR SHIELD | | ITEM NO. | CUT WIRE OR SHIELD | | ITEM NO. | TERMINATION NO. | | | |
| NUMBER | 1 | | 2 | 3 | | 4 | 5 | | 6 | 7 | | |
| A 47 | 2 | | 380 | 300 | 7 | 8 | 5 | | 350 | 300 | A 12 | 7A |
| | | | | | | A 11 | | | | | | |
| A 47A | 3 | | SHLD A47 | 37N | | | | | E3 | 37N | | |
| A 47M | | | P1-V* | 22N | | | | | P3-108 | 22N | 22 | |
| A 48 | 2 | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 12 | 7A |
| | | | | | | A 11 | | | | | | |
| A 48A | 3 | | SHLD A48 | 37N | | | | | E4 | 37N | | |
| A 48M | | | P1-W* | 22N | | | | | P3-103 | 22N | 22 | |
| A 49 | 2 | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 12 | 7A |
| | | | | | | A 11 | | | | | | |
| A 49A | 3 | | SHLD A49 | 37N | | | | | E4 | 37N | | |
| A 49M | | | P1-X* | 22N | | | | | P3-39 | 22N | 22 | |
| A 50 | 3 | | P1-Y* | 22N | | | | | P3-48 | 22N | 22 | |
| A 51 | 3 | | P1-Z* | 22N | | | | | P3-38 | 22N | 22 | |
| A 52 | 2 | | 380 | 350 | 7 | 8 | 5 | | 380 | 350 | A 12 | 7A |
| | | | | | | A 11 | | | | | | |
| A 52A | 3 | | SHLD A52 | 37N | | | | | E4 | 37N | | |
| A 52M | | | P1-AA | 22N | | | | | P3-59 | 22N | 22 | |
| | | | | | | | | | | SIZE | | 1900986 |
| | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | A |
| | | | | | | | | | | SCALE: NONE | | REV LTR + |
| | | | | | | | | | | SHEET 13 OF 15 | | |

1900986

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| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 17 | 2 | 1016128-011 | IDENTIFICATION BAND |
| | 18 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| | 19 | 1 | 1900987-006 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 5/8 DIA X 2 FT 6 IN TOTAL LENGTH |
| 20 | 20 | | | CONNECTOR CONTACTS, PIN |
| 21 | 21 | | | CONNECTOR CONTACTS, SOCKET |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900987 |
| SCALE-NONE | REV LTR + | SHEET 6 OF 11 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|----------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900987-001 | WIRE, ND 1002181, TYPE 1, CLASS 4, WHITE JACKET, 20 AWG WHITE, 5 FT 0 IN TOTAL LENGTH |
| | 2 | 1 | 1900987-002 | WIRE, ND 1002181, TYPE 2, CLASS 4, WHITE JACKET, 20 AWG WHT/BLU, WHT/RED, 14 FT 0 IN TOTAL LENGTH. |
| | 3 | 1 | 1900987-003 | WIRE, ND 1002181, TYPE 1, CLASS 1, WHITE 20 AWG, 18 FT 8 IN TOTAL LENGTH |
| | 4 | 1 | 1900987-004 | WIRE ND 1002181, TYPE 1, CLASS 1, WHITE 22 AWG, 4 FT 0 IN TOTAL LENGTH |
| | 5 | 1 | 1900987-005 | WIRE ND 1002181, TYPE 2, CLASS 1, T2, 20 AWG WHITE WITH LETTER L, WHITE WITH LETTER R, 11 FT 8 IN TOTAL LENGTH. |
| 22 | 6 | 1 | MS3126F18-32PY | (1897125-323) CONNECTOR PLUG, ELECT. |
| 22 | 7 | 1 | MS3126F18-32SY | (1897092-323) CONNECTOR PLUG, ELECT. |
| 10 | 8 | 4 | 1000243-5 | FERRULE, ELECT. |
| 10 | 9 | 2 | 1000242-4 | FERRULE, ELECT. |
| 10 | 10 | 12 | 1000243-11 | FERRULE, ELECT. |
| 10 | 11 | 6 | 1000242-9 | FERRULE, ELECT. |
| 10 | 12 | 1 | 1016006-003 | SPLICE REDUCER |
| 10 | 13 | 1 | 1010490-256 | INSULATION, SLEEVING, ELECT, HEAT SHRINK |
| 10 | 14 | 16 | 1010490-198 | INSULATION, SLEEVING, ELECT, HEAT SHRINK |
| 10 | 15 | 10 | 1010490-200 | INSULATION, SLEEVING, ELECT, HEAT SHRINK |
| 10 | 16 | 1 | 1016128-041 | IDENTIFICATION BAND |

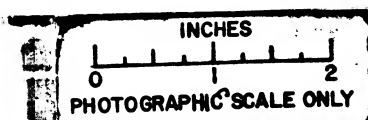
| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900987 |
| SCALE-NONE | REV LTR + | SHEET 5 OF 11 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|-------------|----------------------|-------------------|----------------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 1 | 3 | P1-U | 25N | 20 | P2-U | 25N | 21 | | |
| A 2 | 3 | P1-V | 25N | 20 | P2-V | 25N | 21 | | |
| A 3 | 3 | P1-C | 25N | 20 | P2-C | 25N | 21 | | |
| A 4 | 3 | P1-W | 25N | 20 | P2-W | 25N | 21 | | |
| A 5 | 1 | | 230 | 200 8 9 5 | | 230 | 200 8 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 5A | 4 | SHLD A5 | 25N | | E1 | 37N | | | |
| A 5W | | P1-A | 25N | 20 | P2-A | 25N | 21 | | |
| A 6 | 1 | | 230 | 200 8 9 5 | | 230 | 200 8 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 6A | 4 | SHLD A6 | 25N | | E1 | 37N | | | |
| A 6W | | P1-B | 25N | 20 | P2-B | 25N | 21 | | |
| A 7 | 2 | | 230 | 200 10 11 5 | | 230 | 200 10 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 7A | 4 | SHLD A7 | 25N | | E1 | 37N | | | |
| A 7L | | P1-E | 25N | 20 | P2-E | 25N | 21 | | |
| A 7R | | P1-D | 25N | 20 | P2-D | 25N | 21 | | |
| A 8 | 2 | | 230 | 200 10 11 5 | | 230 | 200 10 A 14 7A | | |

| | | | |
|--|---|-----------|---------------|
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900987 |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | SCALE-NONE | REV LTR + | SHEET 7 OF 11 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|-------------|----------------------|-------------------|----------------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| | | | | A 14 | | | | | |
| A 8A | 4 | SHLD A8 | 25N | | E1 | 37N | | | |
| A 8L | | P1-G | 25N | 20 | P2-G | 25N | 21 | | |
| A 8R | | P1-F | 25N | 20 | P2-F | 25N | 21 | | |
| A 9 | 2 | | 280 | 250 10 11 5 | | 280 | 250 10 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 9A | 4 | SHLD A9 | 25N | | E1 | 37N | | | |
| A 9L | | P1-L | 25N | 20 | P2-L | 25N | 21 | | |
| A 9R | | P1-K | 25N | 20 | P2-K | 25N | 21 | | |
| A 10 | 2 | | 280 | 250 10 11 5 | | 280 | 250 10 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 10A | 4 | SHLD A10 | 25N | | E1 | 37N | | | |
| A 10L | | P1-H | 25N | 20 | P2-H | 25N | 21 | | |
| A 10R | | P1-J | 25N | 20 | P2-J | 25N | 21 | | |
| A 11 | 2 | | 280 | 250 10 11 5 | | 280 | 250 10 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 11A | 4 | SHLD A11 | 25N | | E1 | 37N | | | |
| A 11L | | P1-M | 25N | 20 | P2-M | 25N | 21 | | |

| | | | |
|--|---|-----------|---------------|
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900987 |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | SCALE-NONE | REV LTR + | SHEET 8 OF 11 |



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CABLE W-62

1900987

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | | TO | | |
|--|---------------------------------------|--------------------------|----------|---------------------------------------|--------------------------|----------|
| | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | |
| | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. | ITEM NO. |
| A 11R | P1-N | 25N | 20 | P2-N | 25N | 21 |
| A 12 | 280 | 250 | 10 | 14 | 7A | |
| A 12A | SHLD A12 | 25N | | E1 | 37N | |
| A 12L | P1-P | 25N | 20 | P2-P | 25N | 21 |
| A 12R | P1-R | 25N | 20 | P2-R | 25N | 21 |
| A 13 | | | A 15 | | | A 15 |
| A 13L | P1-Y | 25N | 20 | P2-Y | 25N | 21 |
| A 13R | P1-X | 25N | 20 | P2-X | 25N | 21 |
| A 14 | | | A 15 | | | A 15 |
| A 14L | P1-A* | 25N | 20 | P2-A* | 25N | 21 |
| A 14R | P1-Z | 25N | 20 | P2-Z | 25N | 21 |
| A 15 | | | A 15 | | | A 15 |
| A 15L | P1-C* | 25N | 20 | P2-C* | 25N | 21 |
| A 15R | P1-B* | 25N | 20 | P2-B* | 25N | 21 |
| A 16 | P1-H* | 25N | 20 | P2-H* | 25N | 21 |
| A 17 | P1-J* | 25N | 20 | P2-J* | 25N | 21 |
| A 18 | | | A 15 | | | A 15 |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

3

MAILED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SCALE - NONE
REV LTR +
SHEET 9 OF 11

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CABLE W-62

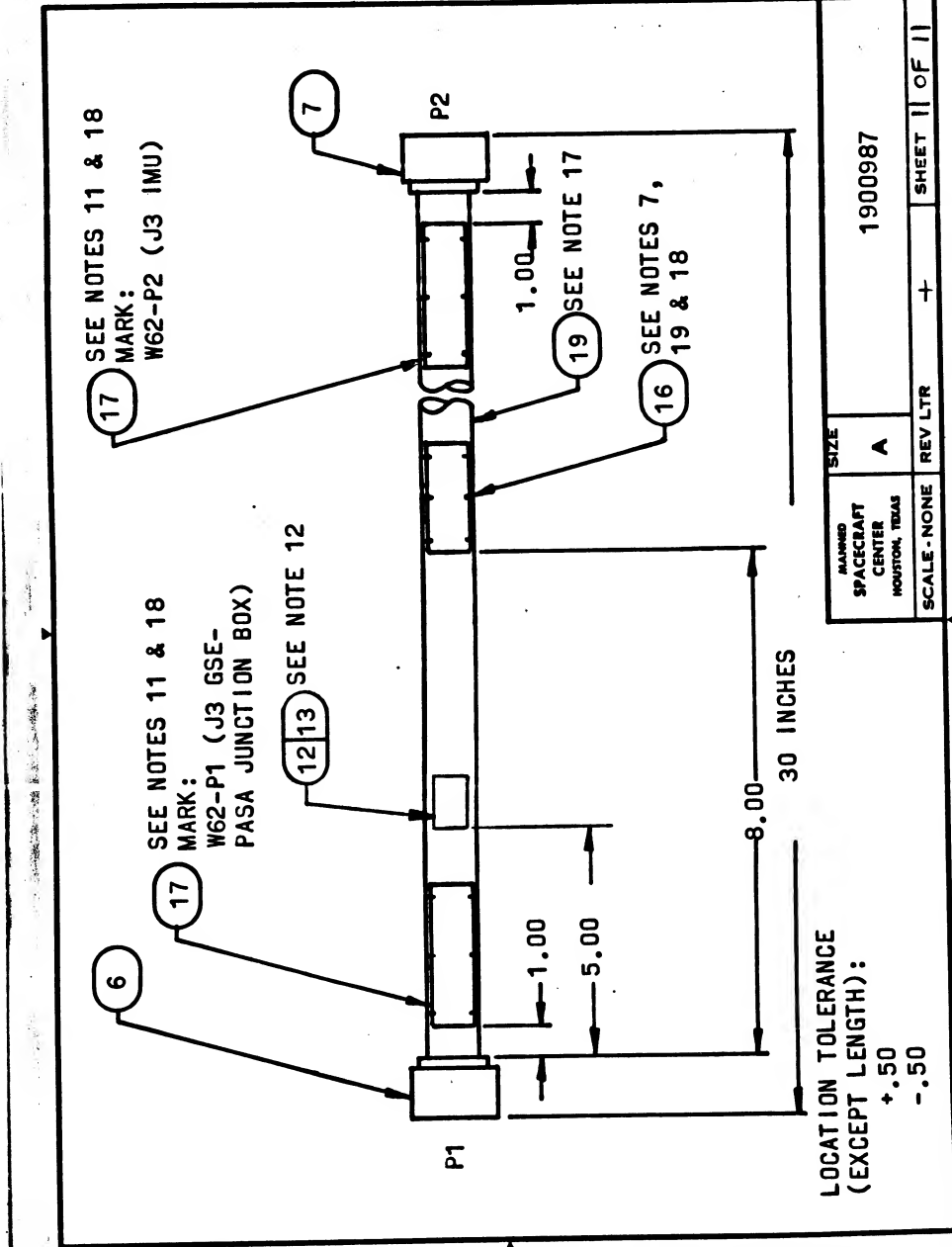
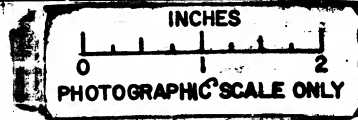
1900987

| CONDUCTOR INDIVIDUAL LENGTH ITEM NUMBER | FROM | | | TO | | |
|--|---------------------------------------|--------------------------|----------|---------------------------------------|--------------------------|----------|
| | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | |
| | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. | ITEM NO. | STRIP WIRE OR JACKET CIRCUIT POINT | TERMINATION SPEC. NO. | ITEM NO. |
| A 18L | P1-E* | 25N | 20 | P2-E* | 25N | 21 |
| A 18R | P1-D* | 25N | 20 | P2-D* | 25N | 21 |
| A 19 | | | A 15 | | | A 15 |
| A 19L | P1-G* | 25N | 20 | P2-G* | 25N | 21 |
| A 19R | P1-F* | 25N | 20 | P2-F* | 25N | 21 |
| A 20 | P1-S | 25N | 20 | E1 | 37N | |
| A 21 | P1-T | 25N | 20 | P2-T | 25N | 21 |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

3

MAILED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SCALE - NONE
REV LTR +
SHEET 10 OF 11



GJK

CABLE W-58

J

1900998

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|--------------------|----------|---|----------------------|-----|-------------|----|----|---|------|---|-----|-----|------|----|-------------|---|------|---|---|
| | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| | | INDIVIDUAL LENGTH | ITEM NO. | 2 | STRIP WIRE OR JACKET | 1 | NO. | 1 | 2 | 3 | 4 | STRIP WIRE OR JACKET | 1 | NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| NUMBER | ITEM NO. | 1 | 2 | 3 | CIRCUIT POINT | 2 | 1 | 2 | 3 | 4 | 5 | CIRCUIT POINT | 2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A 7A | 1 | | | | SHLD A7 | 37N | | | | | | E1 | 37N | | | | | | | | |
| A 7L | | | | | P1-J | 22N | 27 | | | | | P3- 12 | 22N | 22 | | | | | | | |
| A 7R | | | | | P1-H | 22N | 27 | | | | | P3- 11 | 22N | 22 | | | | | | | |
| A 8 | 5 | | | | | | | | | | A 29 | | | | | | | | A 29 | | |
| A 8L | | | | | P1-L | 22N | 27 | | | | | P3- 40 | 22N | 22 | | | | | | | |
| A 8R | | | | | P1-K | 22N | 27 | | | | | P3- 41 | 22N | 22 | | | | | | | |
| A 9 | 1 | | | | P1-N | 22N | 27 | | | | | P3- 43 | 22N | 22 | | | | | | | |
| A 10 | 1 | | | | P1-P | 22N | 27 | | | | | P3- 71 | 22N | 22 | | | | | | | |
| A 11 | 3 | | | | | 230 | 200 | 11 | 12 | 5 | | | 230 | 200 | A 16 | 7A | | | | | |
| | | | | | | | | | | | A 16 | | | | | | | | | | |
| A 11A | 1 | | | | SHLD A11 | 37N | | | | | | E1 | 37N | | | | | | | | |
| A 11L | | | | | P1-S | 22N | 27 | | | | | P3- 53 | 22N | 22 | | | | | | | |
| A 11R | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 12 | 3 | | | | | 230 | 200 | 11 | 12 | 5 | | | 230 | 200 | A 16 | 7A | | | | | |
| | | | | | | | | | | | A 16 | | | | | | | | | | |
| A 12A | 1 | | | | SHLD A12 | 37N | | | | | | E1 | 37N | | | | | | | | |
| A 12L | | | | | P1-U | 22N | 27 | | | | | P3- 52 | 22N | 22 | | | | | | | |
| A 12R | | | | | DELETED | | | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR J SHEET 9 OF 23 | | | | | | | | | |

MIL 2085 - 4-65 WIR

GJK

CABLE W-58

J

1900998

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|--------------------|----------|---|----------------------|-----|-------------|---|----|---|------|--|-----|-----|------|----|-------------|---|---|---|---|
| | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| | | INDIVIDUAL LENGTH | ITEM NO. | 2 | STRIP WIRE OR JACKET | 1 | NO. | 1 | 2 | 3 | 4 | STRIP WIRE OR JACKET | 1 | NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| NUMBER | ITEM NO. | 1 | 2 | 3 | CIRCUIT POINT | 2 | 1 | 2 | 3 | 4 | 5 | CIRCUIT POINT | 2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A 13 | 1 | | | | P1-V | 22N | 27 | | | | | P3- 1 | 22N | 22 | | | | | | | |
| A 14 | 1 | | | | P1-W | 22N | 27 | | | | | P3- 60 | 22N | 22 | | | | | | | |
| A 15 | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 16 | 1 | | | | P1-Y | 22N | 27 | | | | | P3- 96 | 22N | 22 | | | | | | | |
| A 17 | 1 | | | | P1-Z | 22N | 27 | | | | | P3- 95 | 22N | 22 | | | | | | | |
| A 18 | 1 | | | | P1-A* | 22N | 27 | | | | | E4 | 37N | | | | | | | | |
| A 19 | 1 | | | | P1-B* | 22N | 27 | | | | | P3- 93 | 22N | 22 | | | | | | | |
| A 20 | 1 | | | | P1-C* | 22N | 27 | | | | | P3- 51 | 22N | 22 | | | | | | | |
| A 21 | 1 | | | | P1-D* | 22N | 27 | | | | | P3-106 | 22N | 22 | | | | | | | |
| A 22 | 1 | | | | P1-E* | 22N | 27 | | | | | P3- 77 | 22N | 22 | | | | | | | |
| A 23 | 1 | | | | P1-F* | 22N | 27 | | | | | P3- 65 | 22N | 22 | | | | | | | |
| A 24 | 2 | | | | | 280 | 250 | 9 | 10 | 5 | | | 280 | 250 | A 17 | 7A | | | | | |
| | | | | | | | | | | | A 16 | | | | | | | | | | |
| A 24A | 1 | | | | SHLD A24 | 37N | | | | | | E2 | 37N | | | | | | | | |
| A 24W | | | | | P1-G* | 22N | 27 | | | | | P3- 85 | 22N | 22 | | | | | | | |
| A 25 | 2 | | | | | 280 | 250 | 9 | 10 | 5 | | | 280 | 250 | A 17 | 7A | | | | | |
| | | | | | | | | | | | A 16 | | | | | | | | | | |
| A 25A | 1 | | | | SHLD A25 | 37N | | | | | | E2 | 37N | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR J SHEET 10 OF 23 | | | | | | | | | |

MIL 2085 - 4-65 WIR

GJK

CABLE W-58

J

1900998

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----------|--------------------|----------|---|----------------------|-----|-------------|----|----|---|------|---|-----|-----|------|----|-------------|---|---|---|---|
| | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| | | INDIVIDUAL LENGTH | ITEM NO. | 2 | STRIP WIRE OR JACKET | 1 | NO. | 1 | 2 | 3 | 4 | STRIP WIRE OR JACKET | 1 | NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| NUMBER | ITEM NO. | 1 | 2 | 3 | CIRCUIT POINT | 2 | 1 | 2 | 3 | 4 | 5 | CIRCUIT POINT | 2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A 1 | 1 | | | | P4- 1 | 25N | 33 | | | | | P3- 91 | 22N | 22 | | | | | | | |
| A 2 | | | | | DELETED | | | | | | | | | | | | | | | | |
| | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 2A | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 2L | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 2R | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 3 | | | | | DELETED | | | | | | | | | | | | | | | | |
| | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 3A | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 3W | | | | | DELETED | | | | | | | | | | | | | | | | |
| A 4 | 2 | | | | | 230 | 200 | 9 | 10 | 5 | | | 230 | 200 | A 17 | 7A | | | | | |
| | | | | | | | | | | | A 16 | | | | | | | | | | |
| A 4A | 1 | | | | SHLD A4 | 37N | | | | | | E1 | 37N | | | | | | | | |
| A 4W | | | | | P1-E | 22N | 27 | | | | | P3- 54 | 22N | 22 | | | | | | | |
| A 5 | 1 | | | | P1-F | 22N | 27 | | | | | P3- 26 | 22N | 22 | | | | | | | |
| A 6 | 1 | | | | P1-G | 22N | 27 | | | | | P3- 83 | 22N | 22 | | | | | | | |
| A 7 | 3 | | | | | 230 | 200 | 11 | 12 | 5 | | | 230 | 200 | A 16 | 7A | | | | | |
| | | | | | | | | | | | A 16 | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR J SHEET 8 OF 23 | | | | | | | | | |

MIL 2085 - 4-65 WIR

GJK

CABLE W-58

J

1900998

| CONDUCTOR | | | | FROM | | | | | | | | TO | | | | | | | |
|---|---|-----|--|----------------------|--|-----|-----|-------------------|---|--|--|--------------------|--|---------|-----|-------------------|----|---|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | |
| ITEM NO. | | 2 | | STRIP WIRE OR JACKET | | 1 | | 2 | | 1 | | 2 | | 1 | | 2 | | 1 | |
| NUMBER | | NO. | | CIRCUIT POINT | | 2 | | 1 | | ITEM NO. | | 2 | | 1 | | ITEM NO. | | 2 | |
| A 25W | | | | P1-H* | | 22N | | 27 | | | | P3- 98 | | 22N | | 22 | | | |
| A 26 | 1 | | | P1-I* | | 22N | | 27 | | | | P3- 42 | | 22N | | 22 | | | |
| A 27 | 5 | | | | | | | A 29 | | | | | | | | A 29 | | | |
| A 27L | | | | P1-K* | | 22N | | 27 | | | | P3- 69 | | 22N | | 22 | | | |
| A 27R | | | | P1-J* | | 22N | | 27 | | | | P3- 80 | | 22N | | 22 | | | |
| A 28 | 2 | | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | |
| | | | | | | | | A 16 | | | | | | | | | | | |
| A 28A | 1 | | | SHLD A28 | | 37N | | | | | | E2 | | 37N | | | | | |
| A 28W | | | | P1-M* | | 22N | | 27 | | | | P3- 92 | | 22N | | 22 | | | |
| A 29 | 2 | | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | |
| | | | | | | | | A 16 | | | | | | | | | | | |
| A 29A | 1 | | | SHLD A29 | | 37N | | | | | | E2 | | 37N | | | | | |
| A 29W | | | | P1-N* | | 22N | | 27 | | | | P3- 74 | | 22N | | 22 | | | |
| A 30 | 2 | | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | |
| | | | | | | | | A 16 | | | | | | | | | | | |
| A 30A | 1 | | | SHLD A30 | | 37N | | | | | | E2 | | 37N | | | | | |
| A 30W | | | | P1-P* | | 22N | | 27 | | | | P3- 90 | | 22N | | 22 | | | |
| A 31 | 2 | | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | | | | |
| | | | | | | | | | | SCALE - NONE | | REV LTR | | J | | SHEET 11 OF 2 | | | |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 15 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| | 16 | 1 | 1900988-005 | ZIPPER TUBING ND 1002155 |
| 21 | 17 | 32 | | CONNECTOR CONTACT, PIN |
| 22 | 18 | 32 | | CONNECTOR CONTACT, SOCKET |

| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900988 |
| SCALE-NONE | REV LTR | SHEET 6 OF 10 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------|-------|----------------------|---------------|-------------|----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 1 | | 230 | 200 | 7 8 5 | | 230 | 200 | 7 A 9 7A |
| A 1A | 4 | SHLD A1 | 25N | | | E1 | 37N | | |
| A 1L | | P1-B | 25N | 17 | | P2-B | 25N | 18 | |
| A 1R | | P1-A | 25N | 17 | | P2-A | 25N | 18 | |
| A 1Y | | P1-C | 25N | 17 | | P2-C | 25N | 18 | |
| A 2 | 1 | | 230 | 200 | 7 8 5 | | 230 | 200 | 7 A 9 7A |
| A 2A | 4 | SHLD A2 | 25N | | | E1 | 37N | | |
| A 2L | | P1-E | 25N | 17 | | P2-E | 25N | 18 | |
| A 2R | | P1-D | 25N | 17 | | P2-D | 25N | 18 | |
| A 2Y | | P1-F | 25N | 17 | | P2-F | 25N | 18 | |
| A 3 | 1 | | 230 | 200 | 7 8 5 | | 230 | 200 | 7 A 9 7A |
| A 3A | 4 | SHLD A3 | 25N | | | E1 | 37N | | |
| A 3L | | P1-H | 25N | 17 | | P2-H | 25N | 18 | |
| A 3R | | P1-G | 25N | 17 | | P2-G | 25N | 18 | |
| A 3Y | | P1-J | 25N | 17 | | P2-J | 25N | 18 | |

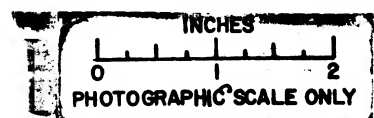
| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900988 |
| SCALE-NONE | REV LTR | SHEET 7 OF 10 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|----------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900988-001 | WIRE, ND 1002181, TYPE 3, CLASS 4, WHT JAKT 20 AWG WHT/BLU, WHT/RED, WHT/YEL 15 FT. 0 IN TOTAL LENGTH. |
| | 2 | 1 | 1900988-002 | WIRE, ND 1002181, TYPE 2, CLASS 1, 20 AWG WHITE WITH LETTER L, WHITE WITH LETTER R, 7 FT 8 IN TOTAL LENGTH. |
| | 3 | 1 | 1900988-003 | WIRE, ND 1002181, TYPE 1, CLASS 1, 20 AWG WHITE 15 FT 0 IN TOTAL LENGTH. |
| | 4 | 1 | 1900988-004 | WIRE, ND 1002181, TYPE 1, CLASS 1, 22 AWG WHITE 3 FT, 0 IN TOTAL LENGTH |
| 16 | 5 | 1 | MS3126F18-32PZ | (1897125-324) CONNECTOR PLUG, ELEC. |
| 16 | 6 | 1 | MS3126F18-32SZ | (1897092-324) CONNECTOR PLUG, ELEC. |
| 10 | 7 | 12 | 1000243-15 | FERRULE, ELEC. |
| 10 | 8 | 6 | 1000242-16 | FERRULE, ELEC. |
| 10 | 9 | 12 | 1010490-196 | INSULATION, SLEEVING ELEC. |
| 10 | 10 | 8 | 1010490-200 | INSULATION, SLEEVING ELEC. |
| 10 | 11 | 1 | 1016006-002 | SPLICE REDUCER |
| 10 | 12 | 1 | 1010490-258 | INSULATION, SLEEVING ELEC. |
| 10 | 13 | 2 | 1016128-011 | IDENTIFICATION BAND |
| 10 | 14 | 1 | 1016128-041 | IDENTIFICATION BAND |

| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900988 |
| SCALE-NONE | REV LTR | SHEET 5 OF 10 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------|-------|----------------------|---------------|-------------|----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 4 | 1 | | 230 | 200 | 7 8 5 | | 230 | 200 | 7 A 9 7A |
| A 4A | 4 | SHLD A4 | 25N | | | E1 | 37N | | |
| A 4L | | P1-L | 25N | 17 | | P2-L | 25N | 18 | |
| A 4R | | P1-K | 25N | 17 | | P2-K | 25N | 18 | |
| A 4Y | | P1-M | 25N | 17 | | P2-M | 25N | 18 | |
| A 5 | 1 | | 280 | 250 | 7 8 5 | | 280 | 250 | 7 A 9 7A |
| A 5A | 4 | SHLD A5 | 25N | | | E1 | 37N | | |
| A 5L | | P1-P | 25N | 17 | | P2-P | 25N | 18 | |
| A 5R | | P1-N | 25N | 17 | | P2-N | 25N | 18 | |
| A 5Y | | P1-R | 25N | 17 | | P2-R | 25N | 18 | |
| A 6 | 1 | | 280 | 250 | 7 8 5 | | 280 | 250 | 7 A 9 7A |
| A 6A | 4 | SHLD A6 | 25N | | | E1 | 37N | | |
| A 6L | | P1-V | 25N | 17 | | P2-V | 25N | 18 | |
| A 6R | | P1-U | 25N | 17 | | P2-U | 25N | 18 | |
| A 6Y | | P1-W | 25N | 17 | | P2-W | 25N | 18 | |

| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900988 |
| SCALE-NONE | REV LTR | SHEET 8 OF 10 |

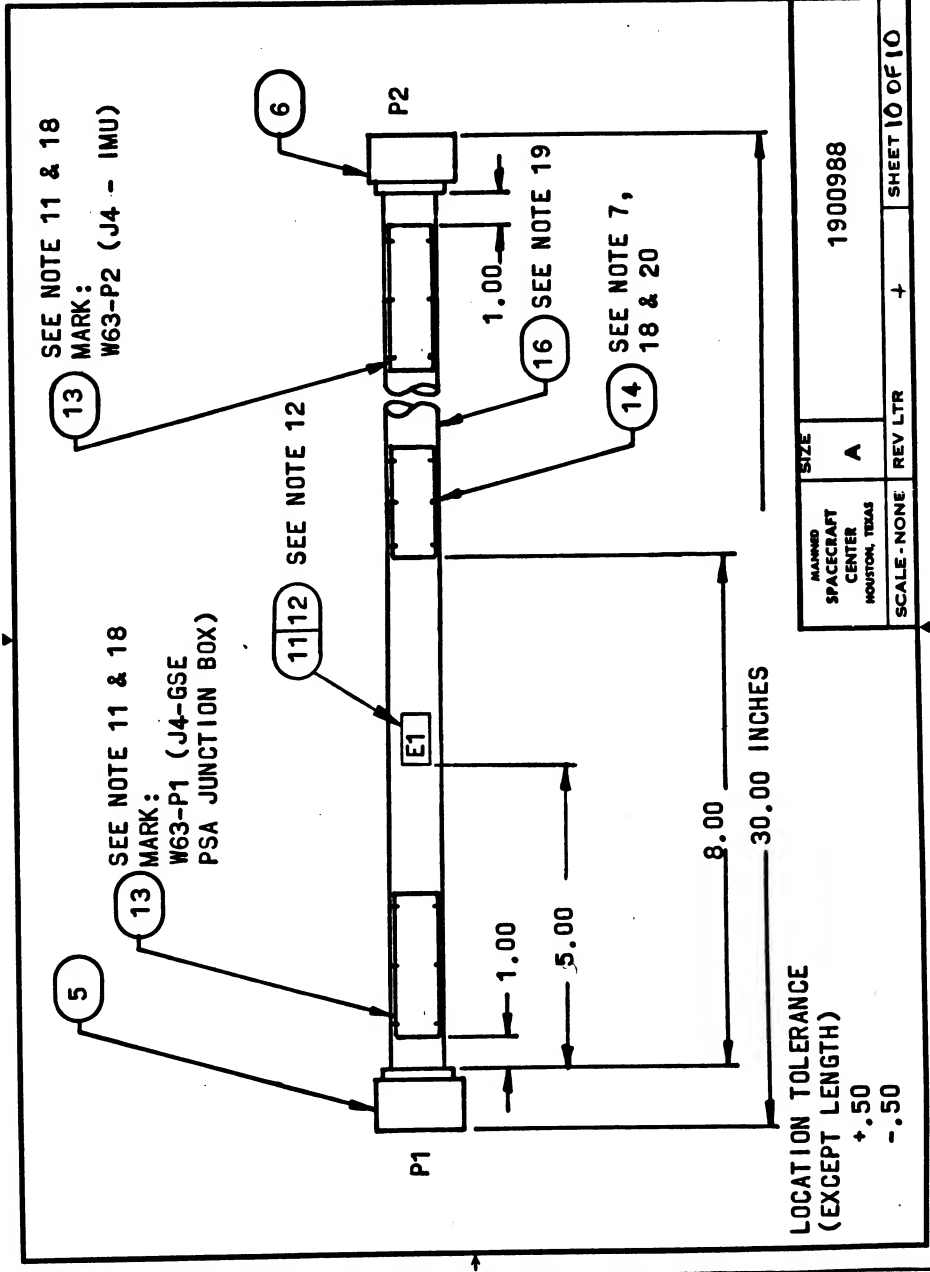
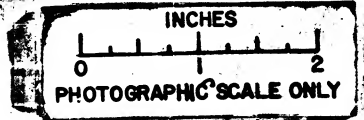


GJB

CABLE W63

1900988

| CONDUCTOR | | | FROM | | | TO | | |
|--|--|--|----------------------|--|--|----------------------|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | |
| CIRCUIT POINT | | | CIRCUIT POINT | | | CIRCUIT POINT | | |
| TERMINATION NO. | | | TERMINATION NO. | | | TERMINATION NO. | | |
| ITEM NO. | | | ITEM NO. | | | ITEM NO. | | |
| A 7 2 | | | A 10 | | | A 10 | | |
| A 7L | | | P1-Y | | | P2-Y | | |
| A 7R | | | P1-X | | | P2-X | | |
| A 8 2 | | | A 10 | | | A 10 | | |
| A 8L | | | P1-A* | | | P2-A* | | |
| A 8R | | | P1-Z | | | P2-Z | | |
| A 9 2 | | | A 10 | | | A 10 | | |
| A 9L | | | P1-C* | | | P2-C* | | |
| A 9R | | | P1-B* | | | P2-B* | | |
| A 10 3 | | | P1-F* | | | P2-F* | | |
| A 11 3 | | | P1-G* | | | P2-G* | | |
| A 12 3 | | | P1-H* | | | P2-H* | | |
| A 13 3 | | | P1-J* | | | P2-J* | | |
| A 14 3 | | | P1-D* | | | E1 | | |
| A 15 2 | | | A 10 | | | A 10 | | |
| A 15L | | | P1-T | | | P2-T | | |
| A 15R | | | P1-S | | | P2-S | | |
| A 16 3 | | | P1-E* | | | P2-E* | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | SCALE - NONE | | | REV LTR + | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | SIZE | | | 1900988 | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | A | | | SHEET 9 OF 10 | | |



NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE - NONE | REV LTR | + |
| SHEET 2 OF 12 | | |

MIL 2084 4-63

GENERAL NOTES

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L
R - WHITE WITH RED TRACER OR WHITE WITH LETTER R
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 14, MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023
- 20 ITEM 17 FURNISHED WITH ITEM 5.
- 21 ITEM 18 FURNISHED WITH ITEM 6.

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE - NONE | REV LTR | + |
| SHEET 3 OF 12 | | |

MIL 2084 4-63

| FOR INFORMATION ONLY | | | |
|---|-------------|---|------|
| APPLICATION | | REVISIONS | |
| NEXT ASSY | USED ON | SYM | DATE |
| 1900005-011 | 1900005-011 | | |
| CLASS B RELEASE TDR No. 05663 | | DATE 1/7/64 | |
| AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| CABLE INTERCONNECT W60 ISS TESTING | | | |
| DRAWN BY <i>[Signature]</i> DATE 12/1/63 CHECKED BY <i>[Signature]</i> DATE 20 NOV 63 APPROVAL BY <i>[Signature]</i> DATE 1/3/64 NASA APPROVAL <i>[Signature]</i> MIT APPROVAL <i>[Signature]</i> | | CODE IDENT NO. A | |
| CONTRACT NAS 9-497 | | SCALE NONE | |
| SHEET 1 OF 12 | | REV + | |

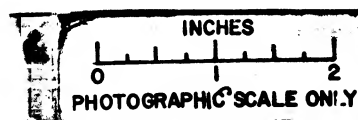
GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | |
|--|------------------|----------------------|-------------|-----------|
| | WIRE OR CABLE | STRIP WIRE JACKET | CUT WIRE | SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | |

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE - NONE | REV LTR | + |
| SHEET 4 OF 12 | | |

MIL 2084 4-63



| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 15 | 4 | 1010490-200 | INSULATION SLEEVING ELECT |
| | 16 | 1 | 1900989-005 | ZIPPER TUBING, ND 1002155, TYPE 1 PLASTIC FLEXIBLE 3/4 DIA. 1 FT. 3 IN. TOTAL LENGTH. |
| 20 | 17 | 32 | | CONNECTOR CONTACT, PIN |
| 21 | 18 | 32 | | CONNECTOR CONTACT, SOCKET |

| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE-NONE | REV LTR | SHEET 6 OF 12 |

| CABLE W60 | | | | | | | | | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|--|--|
| CONDUCTOR | | FROM | | | | TO | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | |
| A 1 | 1 | | | A 15 | | | | A 15 | | | |
| A 1L | | P1-A | 25N | 17 | | P2-A | 25N | 18 | | | |
| A 1R | | P1-B | 25N | 17 | | P2-B | 25N | 18 | | | |
| A 2 | 2 | | 230 200 | 7 8 5 | | | 230 200 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 2A | 4 | SHLD A2 | 25N | | | E1 | 37N | | | | |
| A 2L | | P1-D | 25N | 17 | | P2-D | 25N | 18 | | | |
| A 2R | | P1-C | 25N | 17 | | P2-C | 25N | 18 | | | |
| A 3 | 2 | | 230 200 | 7 8 5 | | | 230 200 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 3A | 4 | SHLD A3 | 25N | | | E1 | 37N | | | | |
| A 3L | | P1-F | 25N | 17 | | P2-F | 25N | 18 | | | |
| A 3R | | P1-E | 25N | 17 | | P2-E | 25N | 18 | | | |
| A 4 | 2 | | 230 200 | 7 8 5 | | | 230 200 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 4A | 4 | SHLD A4 | 25N | | | E1 | 25N | | | | |
| A 4L | | P1-H | 25N | 17 | | P2-H | 25N | 18 | | | |
| A 4R | | P1-G | 25N | 17 | | P2-G | 25N | 18 | | | |

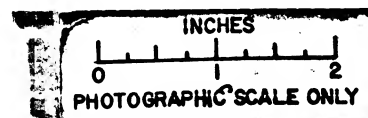
| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE-NONE | REV LTR | SHEET 7 OF 12 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|---------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900989-001 | WIRE ND 1002181, TYPE 2, CLASS 1, 20 AWG WHITE WITH LETTER L, WHITE WITH LETTER R, 2 FT 6 INCHES TOTAL LENGTH. |
| | 2 | 1 | 1900989-002 | WIRE ND 1002181, TYPE 2, CLASS 4, WHT JAKT, 20 AWG, WHT/BLU, WHT/RED, 15 FT, 5 INCHES TOTAL LENGTH. |
| | 3 | 1 | 1900989-003 | WIRE ND 1002181, TYPE 1, CLASS 1, 20 AWG WHITE 2 FT, 0 IN, TOTAL LENGTH. |
| | 4 | 1 | 1900989-004 | WIRE ND 1002181, TYPE 1 CLASS 1, 22 AWG, WHITE, 8 FT, 0 IN, TOTAL LENGTH. |
| 16 | 5 | 1 | MS3126F18-32P | (1897125-320) CONNECTOR PLUG, ELECT |
| 16 | 6 | 1 | MS3126F18-32S | (1897092-320) CONNECTOR PLUG, ELECT |
| 10 | 7 | 26 | 1000243-11 | FERRULE, ELECT. |
| 10 | 8 | 13 | 1000242-9 | FERRULE, ELECT. |
| 10 | 9 | 26 | 1010490-198 | INSULATION SLEEVING, ELECT. |
| 10 | 10 | 2 | 1016006-002 | SPLICE REDUCER |
| 10 | 11 | 2 | 1010490-258 | INSULATION SLEEVING, ELECT. |
| 10 | 12 | 2 | 1016128-011 | IDENTIFICATION BAND |
| 10 | 13 | 1 | 1016128-041 | IDENTIFICATION BAND |
| | 14 | AR | MIL-T-713 | LACING TAPE TYPE P, CLASS 2 BLACK (ES 2732 NO.18) |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE-NONE | REV LTR | SHEET 5 OF 12 |

| CABLE W60 | | | | | | | | | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|--|--|
| CONDUCTOR | | FROM | | | | TO | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | | |
| A 5 | 2 | | 230 200 | 7 8 5 | | | 230 200 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 5A | 4 | SHLD A5 | 25N | | | E1 | 37N | | | | |
| A 5L | | P1-K | 25N | 17 | | P2-K | 25N | 18 | | | |
| A 5R | | P1-J | 25N | 17 | | P2-J | 25N | 18 | | | |
| A 6 | 2 | | 280 250 | 7 8 5 | | | 280 250 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 6A | 4 | SHLD A6 | 25N | | | E1 | 37N | | | | |
| A 6L | | P1-M | 25N | 17 | | P2-M | 25N | 18 | | | |
| A 6R | | P1-L | 25N | 17 | | P2-L | 25N | 18 | | | |
| A 7 | 2 | | 280 250 | 7 8 5 | | | 280 250 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 7A | 4 | SHLD A7 | 25N | | | E1 | 37N | | | | |
| A 7L | | P1-N | 25N | 17 | | P2-N | 25N | 18 | | | |
| A 7R | | P1-P | 25N | 17 | | P2-P | 25N | 18 | | | |
| A 8 | 2 | | 280 250 | 7 8 5 | | | 280 250 | 7 A 9 7A | | | |
| | | | | A 9 | | | | | | | |
| A 8A | 4 | SHLD A8 | 25N | | | E1 | 37N | | | | |

| | | |
|---|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900989 |
| SCALE-NONE | REV LTR | SHEET 8 OF 12 |



GJC

CABLE W60

1900989

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-------|--|---------------|-------------------|----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 12L | | P1-S | 25N | 17 | | P2-S | 25N | 18 | |
| A 12R | | P1-R | 25N | 17 | | P2-R | 25N | 18 | |
| A 13 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | 7 A 9 7A |
| | | | | | A 9 | | | | |
| A 13A | 4 | SHLD A13 | 25N | | | E2 | 37N | | |
| A 13L | | P1-U | 25N | 17 | | P2-U | 25N | 18 | |
| A 13R | | P1-T | 25N | 17 | | P2-T | 25N | 18 | |
| A 14 | 3 | P1-D* | 25N | 17 | | E2 | 37N | 18 | |
| A 15 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | 7 A 9 7A |
| | | | | | A 9 | | | | |
| A 15A | 4 | SHLD A15 | 25N | | | E2 | 37N | | |
| A 15L | | P1-E* | 25N | 17 | | P2-E* | 25N | 18 | |
| A 15R | | P1-C* | 25N | 17 | | P2-C* | 25N | 18 | |
| A 16 | 2 | | 380 | 350 | 7 8 5 | | 380 | 350 | 7 A 9 7A |
| | | | | | A 9 | | | | |
| A 16A | 4 | SHLD A16 | 25N | | | E2 | 37N | | |
| A 16L | | P1-J* | 25N | 17 | | P2-J* | 25N | 18 | |
| A 16R | | P1-H* | 25N | 17 | | P2-H* | 25N | 18 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR + SHEET 10 OF 12 | | | |

MIL 2085 - 4-63 WIR

GJC

CABLE W60

1900989

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 17 | 3 | P1-V | 25N | 17 | | P2-V | 25N | 18 | |
| A 18 | 3 | E1 | 37N | | | E2 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR + SHEET 11 OF 12 | | | |

MIL 2085 - 4-63 WIR

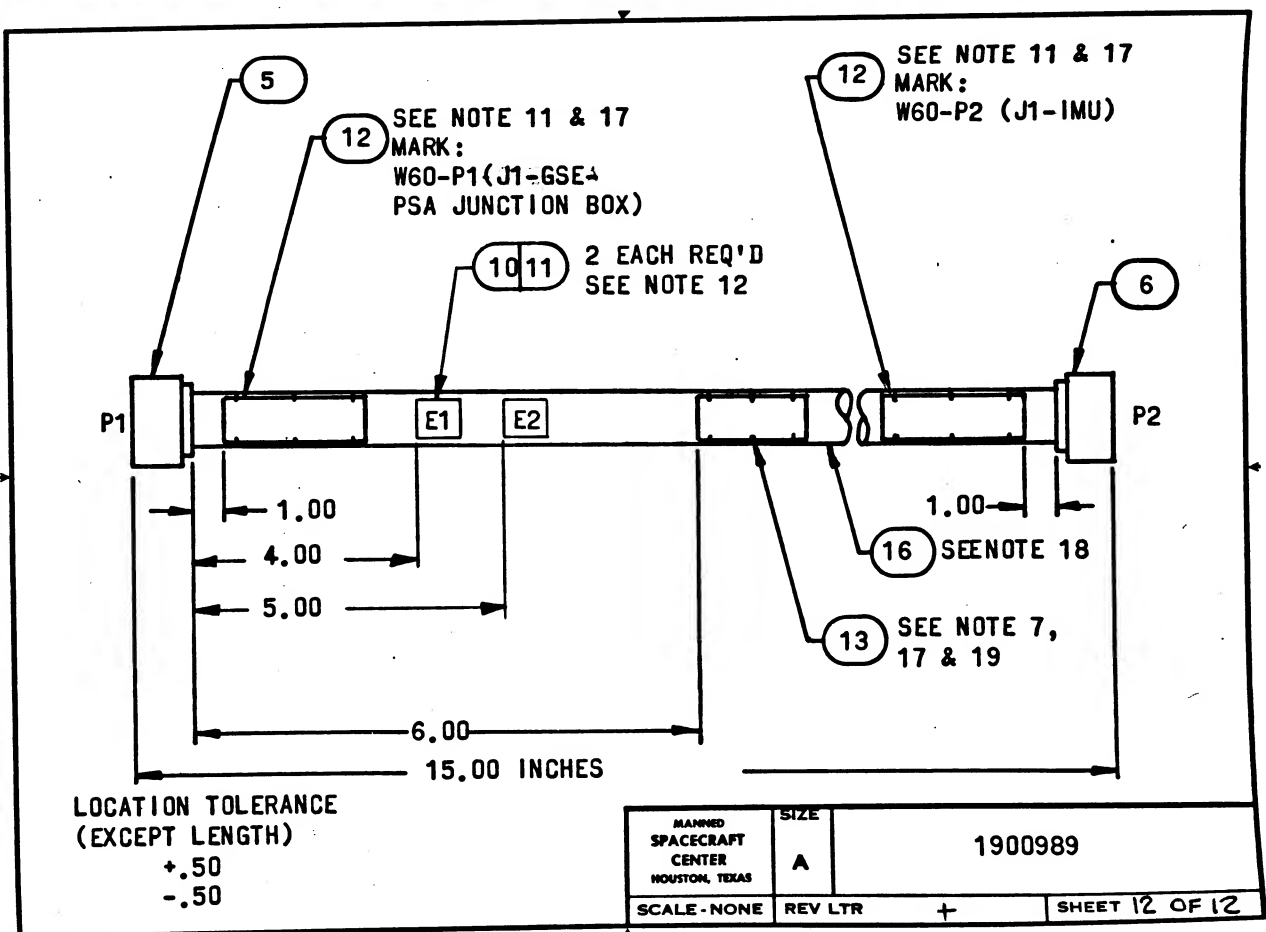
GJC

CABLE W60

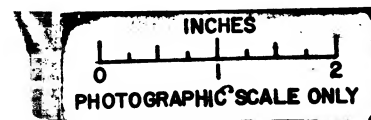
1900989

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------|----------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 8L | | P1-X | 25N | 17 | | P2-X | 25N | 18 | |
| A 8R | | P1-W | 25N | 17 | | P2-W | 25N | 18 | |
| A 9 | 2 | | 280 | 250 | 7 8 5 | | 280 | 250 | 7 A 9 7A |
| | | | | | A 9 | | | | |
| A 9A | 4 | SHLD A9 | 25N | | | E2 | 37N | | |
| A 9L | | P1-Z | 25N | 17 | | P2-Z | 25N | 18 | |
| A 9R | | P1-Y | 25N | 17 | | P2-Y | 25N | 18 | |
| A 10 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | 7 A 9 7A |
| | | | | | A 9 | | | | |
| A 10A | 4 | SHLD A10 | 25N | | | E2 | 37N | | |
| A 10L | | P1-B* | 25N | 17 | | P2-B* | 25N | 18 | |
| A 10R | | P1-A* | 25N | 17 | | P2-A* | 25N | 18 | |
| A 11 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | 7 A 9 7A |
| | | | | | A 9 | | | | |
| A 11A | 4 | SHLD A11 | 25N | | | E2 | 37N | | |
| A 11L | | P1-F* | 25N | 17 | | P2-F* | 25N | 18 | |
| A 11R | | P1-G* | 25N | 17 | | P2-G* | 25N | 18 | |
| A 12 | 1 | | | | A 15 | | | | A 15 |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR + SHEET 9 OF 12 | | | |

MIL 2085 - 4-63 WIR



MIL 2084 4-63



| PENNANT NOTE | GENERAL NOTES |
|-----------------|---|
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION. |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. |
| 9 | A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER. |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 |
| SCALE-NONE | REV LTR | C |
| SHEET | | 2 OF 13 |

MIL 2084 4-63

| PENNANT NOTE | GENERAL NOTES |
|-----------------|---|
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER W - WHITE |
| 16 | ASSEMBLE CONTACT IN ALL CONNECTOR GROMMET HOLES |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR. |
| 18 | SEAL ZIPPER TUBING PER ND1002153. |
| 19 | SERIALIZE PER ND1002023 |
| 20 | DELETE |
| 21 | ITEM 22 FURNISHED WITH ITEM 5 |
| 22 | ITEM 23 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 23 AS REQUIRED TO FIT. |

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 |
| SCALE-NONE | REV LTR | A |
| SHEET | | 3 OF 13 |

MIL 2084 4-63

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|-------------|-------------|-----------|---|---------|----------|----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | DATE | APPROVAL |
| 1901998-011 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 193770 TORR 09032 | FEB 64 | J J J | FEB 64 | J J J |
| | | B | CHANGE IN ACCORDANCE WITH CM 195638 | MAR 64 | RUR | MAR 64 | RUR |
| | | C | CHANGE IN ACCORDANCE WITH CM 196629 REVISED CUSTOMER DATA (V2-64) | APR 64 | MB | APR 64 | MB |
| | | D | CHANGE IN ACCORDANCE WITH CM 197543 TORR 10681 | MAY 64 | RB | MAY 64 | RB |
| | | E | CHANGE IN ACCORDANCE WITH CM 197758 TORR 1373 | JUN 64 | J J J | JUN 64 | J J J |
| | | F | CHANGE IN ACCORDANCE WITH CM 199019 TORR 1224 | JULY 64 | J W | JULY 64 | J W |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 11/7/64

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN BY: [Signature] DATE: 10/10/63
CHECKED BY: [Signature] DATE: 10/10/63
APPROVAL BY: [Signature] DATE: 10/10/63
APPROVAL BY: [Signature] DATE: 10/10/63

NASA APPROVAL [Signature]
MIT APPROVAL [Signature]

CONTRACT NAS 9-457

SPACECRAFT CENTER
HOUSTON, TEXAS

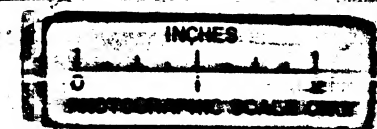
CABLE INTERCONNECT W47
ISS, OSS TESTING

| | | | |
|----------------|---------|-------|---------|
| CODE IDENT NO. | 1900990 | REV | E |
| SIZE | A | SHEET | 1 OF 13 |
| SCALE | NONE | | |

| PENNANT NOTE | GENERAL NOTES |
|-----------------|--|
| | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED — |
| | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. |
| | TOLERANCE |
| | WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD |
| | UNDER 1 INCH +.06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 |
| | 1 INCH TO 6 INCHES +.50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 |
| | 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 |
| | OVER 6 FEET +2.00-.00 |

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 |
| SCALE-NONE | REV LTR | A |
| SHEET | | 4 OF 13 |

MIL 2084 4-63

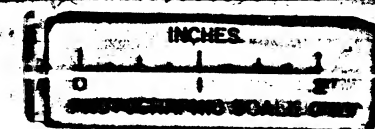


| GJD | | CABLE W-47 | | D | | 1900990 | |
|-------------------|------|------------|---|--|---------|---------------|--|
| LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 10 | 17 | 3 | 1016006-002 | SPLICE REDUCER | | | |
| 10 | 18 | 1 | 1016128-011 | BAND IDENTIFICATION | | | |
| 10 | 19 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| | 20 | 1 | 1900990-005 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.00 DIA. 16 FT TOTAL LENGTH. | | | |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 21 | 22 | 61 | | CONNECTOR CONTACT, PIN | | | |
| 22 | 23 | AR | | 1897147-106, 108, 112, CABLE CLAMP SLEEVE | | | |
| 10 | 24 | 1 | 1016282-024 | RUBBER GROMMET | | | |
| 10 | 25 | 1 | 1015902-46 | TERMINAL LUG | | | |
| | 26 | 1 | 1900990-006 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | | |
| | | | SCALE-NONE | REV LTR | D | SHEET 6 OF 13 | |

| GJD | | CABLE W-47 | | + | | 1900990 | | | |
|-------------------|----|----------------------|---|---------|-------------|----------------------|-----|-------------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | | ITEM NO. | | | | ITEM NO. | | | |
| A | 1 | 4 | P1-Z | 22N | | P2-30 | 22N | | |
| A | 2 | 2 | | 230 | 200 11 12 5 | | 230 | 200 A 15 7A | |
| | | | | | A 14 | | | | |
| A | 2A | 4 | SHLD A2 | 37N | | E1 | 37N | | |
| A | 2W | | P1-B* | 22N | 22 | P2-12 | 22N | 16 | |
| A | 3 | 1 | | 230 | 200 8 7 5 | | 230 | 200 A 14 7A | |
| | | | | | A 14 | | | | |
| A | 3A | 4 | SHLD A3 | 37N | | E1 | 37N | | |
| A | 3L | | P1-D* | 22N | 22 | P2-14 | 22N | 16 | |
| A | 3R | | P1-C* | 22N | 22 | P2-1 | 22N | 16 | |
| A | 4 | 4 | P1-DD | 22N | 22 | P2-15 | 22N | 16 | |
| A | 5 | 1 | | 230 | 200 8 7 5 | | 230 | 200 A 14 7A | |
| | | | | | A 14 | | | | |
| A | 5A | 4 | SHLD A5 | 37N | | E1 | 37N | | |
| A | 5L | | P1-F* | 22N | 22 | P2-57 | 22N | 16 | |
| A | 5R | | P1-E* | 22N | 22 | P2-67 | 22N | 16 | |
| A | 6 | 1 | | 230 | 200 8 7 5 | | 230 | 200 A 14 7A | |
| | | | | | A 14 | | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | | | | |
| | | | SCALE-NONE | REV LTR | + | SHEET 7 OF 13 | | | |

| GJD | | CABLE W-47 | | A | | 1900990 | |
|-------------------|------|------------|---|---|---------|---------------|--|
| LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900990-001 | WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 22AWG WHT/BLU, WHT/RED, 176 FT. TOTAL LENGTH. | | | |
| | 2 | 1 | 1900990-002 | WIRE ND1002181 TYPE 1, CLASS 4, WHT JAKT, 22AWG WHITE 80 FT. TOTAL LENGTH. | | | |
| | 3 | 1 | 1900990-003 | WIRE ND1002181 TYPE 3, CLASS 4, WHT JAKT, 22AWG WHT/BLU, WHT/RED, WHT/YEL, 48 FT. TOTAL LENGTH. | | | |
| | 4 | 1 | 1900990-004 | WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT, 75 FT. TOTAL LENGTH | | | |
| 16 | 5 | 1 | M53126F-24-61PX (1897047-612) | CONNECTOR PLUG | | | |
| 16,10 | 6 | 1 | 1010411-002 | CONNECTOR | | | |
| 10 | 7 | 11 | 1000243-008 | FERRULE ELECT. COND. | | | |
| 10 | 8 | 11 | 1000242-007 | FERRULE ELECT. COND. | | | |
| 10 | 9 | 3 | 1000243-011 | FERRULE ELECT. COND. | | | |
| 10 | 10 | 3 | 1000242-011 | FERRULE ELECT. COND. | | | |
| 10 | 11 | 3 | 1000243-003 | FERRULE ELECT. COND. | | | |
| 10 | 12 | 3 | 1000242-002 | FERRULE ELECT. COND. | | | |
| 10 | 13 | 3 | 1010490-258 | INSULATION SLEEVING ELECT. | | | |
| 10 | 14 | 33 | 1010490-198 | INSULATION SLEEVING ELECT. | | | |
| 10 | 15 | 3 | 1010490-200 | INSULATION SLEEVING ELECT. | | | |
| 10 | 16 | 108 | 1010444-002 | CONNECTOR CONTACT, SOCKET | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | | |
| | | | SCALE-NONE | REV LTR | A | SHEET 5 OF 13 | |

| GJD | | CABLE W-47 | | F | | 1900990 | | | |
|-------------------|----|----------------------|---|---------|-------------|----------------------|-----|-------------|--|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | | ITEM NO. | | | | ITEM NO. | | | |
| A | 6A | 4 | SHLD A6 | 37N | | E1 | 37N | | |
| A | 6L | | P1-H* | 22N | 22 | P2-45 | 22N | 16 | |
| A | 6R | | P1-G* | 22N | 22 | P2-35 | 22N | 16 | |
| A | 7 | 2 | | 280 | 250 11 12 5 | | 280 | 250 A 15 7A | |
| | | | | | A 14 | | | | |
| A | 7A | 4 | SHLD A7 | 37N | | E1 | 37N | | |
| A | 7W | | P1-I* | 22N | 22 | P2-34 | 22N | 16 | |
| A | 8 | 1 | | 280 | 250 8 7 5 | | 280 | 250 A 14 7A | |
| | | | | | A 14 | | | | |
| A | 8A | 4 | SHLD A8 | 37N | | E1 | 37 | | |
| A | 8L | | P1-K* | 22N | 22 | P2-6 | 22N | 16 | |
| A | 8R | | P1-J* | 22N | 22 | P2-20 | 22N | 16 | |
| A | 9 | 1 | | 280 | 250 8 7 5 | | 280 | 250 A 14 7A | |
| | | | | | A 14 | | | | |
| A | 9A | 4 | SHLD A9 | 37N | | E2 | 37N | | |
| A | 9L | | P1-N* | 22N | 22 | P2-7 | 22N | 16 | |
| A | 9R | | P1-M* | 22N | 22 | P2-21 | 22N | 16 | |
| A | 10 | 1 | | 280 | 250 8 7 5 | | 280 | 250 A 14 7A | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | | | | |
| | | | SCALE-NONE | REV LTR | F | SHEET 8 OF 13 | | | |



GJD

CABLE W47

1900990

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | | |
|--|----------|------|----------------------|--|---------------|-----|----------|-------------------|----------------------|---|---------------|---------|-----|--------------------|-----|----------------|----|--|-------------------|--|--|--|--|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | | ITEM NO. | | | | | | | | | | |
| A 13R | | | P1-V* | | 22N | | 22 | | | | | P2-107 | | 22N | | 16 | | | | | | | | |
| A 13Y | | | P1-X* | | 22N | | 22 | | | | | P2- 94 | | 22N | | 16 | | | | | | | | |
| A 14 | 1 | | | | 380 | 300 | 8 7 5 | | | | | | | 380 | 300 | A 14 | 7A | | | | | | | |
| | | | | | | | A 14 | | | | | | | | | | | | | | | | | |
| A 14A | 4 | | SHLD A14 | | 37N | | | | | | | E2 | | 37N | | | | | | | | | | |
| A 14L | | | P1-Z* | | 22N | | 22 | | | | | P2- 50 | | 22N | | 16 | | | | | | | | |
| A 14R | | | P1-Y* | | 22N | | 22 | | | | | P2- 60 | | 22N | | 16 | | | | | | | | |
| A 15 | 1 | | | | 380 | 350 | 8 7 5 | | | | | | | 380 | 350 | A 14 | 7A | | | | | | | |
| | | | | | | | A 14 | | | | | | | | | | | | | | | | | |
| A 15A | 4 | | SHLD A15 | | 37N | | | | | | | E3 | | 37N | | | | | | | | | | |
| A 15L | | | P1-CC | | 22N | | 22 | | | | | P2- 2 | | 22N | | 16 | | | | | | | | |
| A 15R | | | P1-BB | | 22N | | 22 | | | | | P2- 3 | | 22N | | 16 | | | | | | | | |
| A 16 | 4 | | P1-AA | | 22N | | 22 | | | | | P2- 16 | | 22N | | 16 | | | | | | | | |
| A 17 | 3 | | | | 380 | 350 | 9 10 5 | | | | | | | 380 | 350 | A 14 | 7A | | | | | | | |
| | | | | | | | A 14 | | | | | | | | | | | | | | | | | |
| A 17A | 4 | | SHLD A17 | | 37N | | | | | | | E3 | | 37N | | | | | | | | | | |
| A 17L | | | P1-FF | | 22N | | 22 | | | | | P2-105 | | 22N | | 16 | | | | | | | | |
| A 17R | | | P1-EE | | 22N | | 22 | | | | | P2- 92 | | 22N | | 16 | | | | | | | | |
| <div> <div>1</div> <div>2</div> </div> <div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900990 | | | | | | | | | | |
| | | | | | | | | | | SCALE-NONE | | REV LTR | | + | | SHEET 10 OF 13 | | | | | | | | |

MIL 2088 - 4-65 WIR

| GJD | | CABLE W-47 | | | | | | | | | | D | | 1900990 | | | |
|---|----------|------------|----------------------|-----|-----|-------------------|----|---|-----|--|-----|-----------|-------------------|---------|---|----------------|---|
| CONDUCTOR | | | FROM | | | | | | TO | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | T | I | 1 | 2 | 1 | | 2 | 1 | 2 | 1 | 2 | 1 | | 2 |
| | | | CIRCUIT POINT | | | ITEM NO. | | | | CIRCUIT POINT | | | ITEM NO. | | | | |
| A 17Y | | | P1-GG | 22N | | 22 | | | | P2-106 | 22N | | 16 | | | | |
| A 18 | 3 | | | 380 | 350 | 9 | 10 | 5 | | | 380 | 350 | A 14 | 7A | | | |
| | | | | | | A 14 | | | | | | | | | | | |
| A 18A | 4 | | SHLD A18 | 37N | | | | | | E3 | 37N | | | | | | |
| A 18L | | | P1-JJ | 22N | | 22 | | | | P2- 31 | 22N | | 16 | | | | |
| A 18R | | | P1-HH | 22N | | 22 | | | | P2- 32 | 22N | | 16 | | | | |
| A 18Y | | | P1-KK | 22N | | 22 | | | | P2- 43 | 22N | | 16 | | | | |
| A 19 | 1 | | | 380 | 350 | 8 | 7 | 5 | | | 380 | 350 | A 14 | 7A | | | |
| | | | | | | A 14 | | | | | | | | | | | |
| A 19A | 4 | | SHLD A19 | 37N | | | | | | E3 | 37N | | | | | | |
| A 19L | | | P1-MM | 22N | | 22 | | | | P2- 29 | 22N | | 16 | | | | |
| A 19R | | | P1-LL | 22N | | 22 | | | | P2- 28 | 22N | | 16 | | | | |
| A 20 | 4 | | P3- 1 | 25N | | 25 | | | | P2- 41 | 22N | | 16 | | | | |
| A 21 | 2 | | | 430 | 400 | 11 | 12 | 5 | | | 430 | 400 | A 15 | 7A | | | |
| | | | | | | A 14 | | | | | | | | | | | |
| A 21A | 4 | | SHLD A21 | 37N | | | | | | E3 | 37N | | | | | | |
| A 21W | | | P1-NN | 22N | | 22 | | | | P2- 11 | 22N | | 16 | | | | |
| A 22 | 2 | | | 430 | 400 | 11 | 12 | 5 | | | 430 | 400 | A 15 | 7A | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900990 | | | |
| | | | | | | | | | | SCALE - NONE | | REV LTR | | D | | SHEET 11 OF 13 | |

MIL 2088 - 4-65 WIR

| GJD | | CABLE W-47 | | | | | | | | | | B | | 1900990 | | | |
|---|----------|------------|--|--------------------|-----|-----|--------|--|--|-----------|-----|---------|------|--------------|--|--|--|
| CONDUCTOR | | | | FROM | | | | TO | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | | | | |
| STRIP WIRE OR JACKET | | | | CIRCUIT POINT | | | | ITEM NO. | | | | NO. | | | | | |
| NUMBER | ITEM NO. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| A 10A | 4 | | | SHLD A10 | 37N | | | | | E2 | 37N | | | | | | |
| A 10L | | | | P1-Q* | 22N | 22 | | | | P2- 90 | 22N | 16 | | | | | |
| A 10R | | | | P1-P* | 22N | 22 | | | | P2-104 | 22N | 16 | | | | | |
| A 11 | 1 | | | | 330 | 300 | 8 7 5 | | | | 330 | 300 | A 14 | 7A | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| A 11A | 4 | | | SHLD A11 | 37N | | | | | E2 | 37N | | | | | | |
| A 11L | | | | P1-S* | 22N | 22 | | | | P2- 86 | 22N | 16 | | | | | |
| A 11R | | | | P1-R* | 22N | 22 | | | | P2-100 | 22N | 16 | | | | | |
| A 12 | 1 | | | | 330 | 300 | 8 7 5 | | | | 330 | 300 | A 14 | 7A | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| A 12A | 4 | | | SHLD A12 | 37N | | | | | E2 | 37N | | | | | | |
| A 12L | | | | P1-U* | 22N | 22 | | | | P2- 87 | 22N | 16 | | | | | |
| A 12R | | | | P1-T* | 22N | 22 | | | | P2-101 | 22N | 16 | | | | | |
| A 13 | 3 | | | | 330 | 300 | 9 10 5 | | | | 330 | 300 | A 14 | 7A | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| A 13A | 4 | | | SHLD A13 | 37N | | | | | P1-C | 22N | | | | | | |
| A 13L | | | | P1-W* | 22N | 22 | | | | P2-108 | 22N | 16 | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900990 | | | | | |
| | | | | | | | | SCALE-NONE | | REV LTR | | B | | SHEET 9 OF 1 | | | |
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MIL 2088 - 4-65 WIR

6JD

CABLE W-47

E

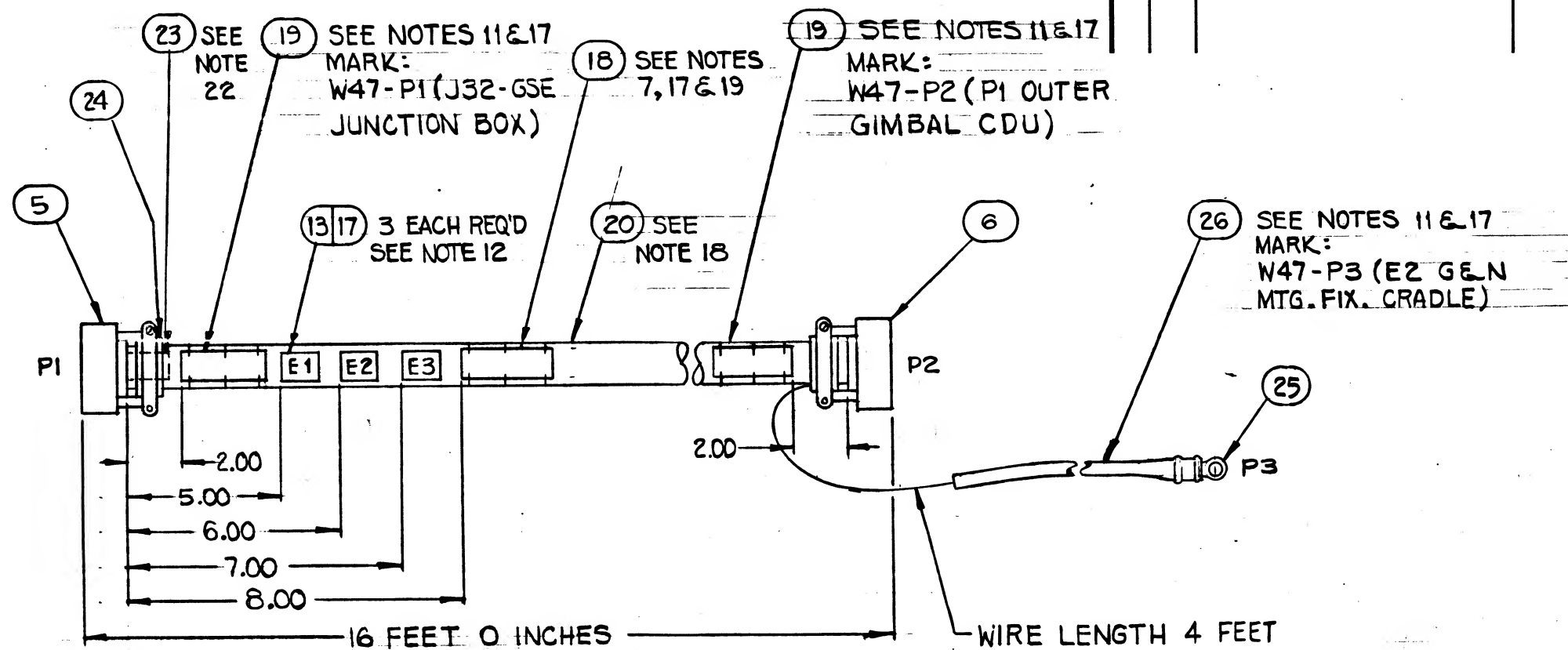
1900990

| CONDUCTOR | | | | FROM | | | | | TO | | | | | | | | |
|-------------------|----------|--|--|----------------------|---|-----|-------------------|---------|-----|--------------------|---|-----|-------------------|------|-----|---|---|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | | |
| NUMBER | ITEM NO. | | | STRIP WIRE OR JACKET | T | I | 1 | 2 | | 3 | 4 | 5 | 6 | 7 | | 8 | 9 |
| | | | | CIRCUIT POINT | | | | | | | | | | | | | |
| | | | | | | | | A 14 | | | | | | | | | |
| A 22A | 4 | | | SHLD A22 | | 37N | | | | E3 | | 37N | | | | | |
| A 22W | | | | P1-PP | | 22N | | 22 | | P2- 29 | | 22N | | 16 | | | |
| A 23 | 4 | | | P1-B | | 22N | | 22 | | E1 | | 37N | | | | | |
| A 24 | 4 | | | E1 | | 37N | | | | E2 | | 37N | | | | | |
| A 25 | 4 | | | E2 | | 37N | | | | E3 | | 37N | | | | | |
| A 26 | 2 | | | | | 430 | 400 | 11 12 5 | | | | 430 | 400 | A 15 | 7A | | |
| | | | | | | | | A 14 | | | | | | | | | |
| A 26A | 4 | | | SHLD A26 | | 37 | | | | E3 | | 37N | | | | | |
| A 26W | | | | P1-A* | | 22 | | 22 | | P2- 89 | | 22N | | 16 | | | |
| A 27 | 4 | | | P1-D | | 22N | | 22 | | P1-E | | 22N | | 22 | | | |
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MIL 2088 - 4-65 WIR

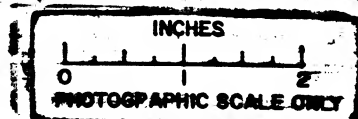


| REVISIONS | | | | |
|-----------|------|------------------------------------|---------|-------|
| SYM | ZONE | DESCRIPTION | DATE | APPD. |
| | | SEE SHEET 1 FOR REVISION RECORD | CHG NO. | |



LOCATION TOLERANCE
(EXCEPT LENGTH): $\pm .50$

| | | | | | | | |
|-------------|--|----------------------------|----------|-----------------------------|---|---|------|
| | | UNLESS OTHERWISE SPECIFIED | | AC SPARK PLUG DIVISION, GMC | | MANNED | |
| | | DIMENSIONS ARE IN INCHES | | MILWAUKEE, WISCONSIN | | SPACECRAFT CENTER | |
| | | TOLERANCES ON | | ACSP PN | | HOUSTON, TEXAS | |
| | | FRACTIONS | DECIMALS | ANGLES | DRAWN <u>T. KOSMOTKA</u> <u>14 NOV 63</u> | CABLE INTERCONNECT W47 ISS, OSS, TESTING | |
| | | + | + | + | DATE | | |
| | | + | + | + | CHECKED <u>MAIKOWSKI</u> <u>20 NOV 63</u> | | |
| | | - | - | - | APPROVAL <u>N. ABRAHAM</u> <u>20 NOV 63</u> | | |
| | | DO NOT SCALE THIS DRAWING | | | APPROVAL <u>W. Sch</u> <u>20 9/14/64</u> | 1700990 | |
| | | MATERIAL | | | NASA APPROVAL <u>G. C. [Signature]</u> <u>9/15/64</u> | CODE IDENT NO. | SIZE |
| | | | | | | | C |
| NEXT ASSY | | USED ON | | | MIT APPROVAL <u>J. H. [Signature]</u> <u>9/15/64</u> | 1900990 | |
| APPLICATION | | CONTRACT | | | SCALE NONE | SHEET 13 OF 13 | |



| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|-------------|------|-------|-------------|---|
| 20 | 16 | 108 | 1010464-2 | CONNECTOR CONTACT, SOCKET |
| 10 | 17 | 3 | 1016006-002 | SPLICE REDUCER |
| 10 | 18 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 19 | 2 | 1016128-041 | BAND IDENTIFICATION |
| | 20 | 1 | 1900990-005 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 5/8 DIA 16 FT. TOTAL LENGTH. |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO. 18) |
| 21 | 22 | 61 | | CONNECTOR CONTACT, PIN |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900990

SCALE - NONE

REV LTR

+

SHEET 6 OF 13

GJD
CABLE W47
1900990

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|----------------------|---------------|-------------------|---------|----------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 1 | 4 | P1-Z | 22N | | | P2- 30 | 22N | | |
| A 2 | 2 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 15 7A |
| | | | | | A 14 | | | | |
| A 2A | 4 | SHLD A2 | 37N | | | E1 | 37N | | |
| A 2W | | P1-B* | 22N | 22 | | P2- 12 | 22N | 16 | |
| A 3 | 1 | | 230 | 200 | 8 7 5 | | 230 | 200 | A 14 7A |
| | | | | | A 14 | | | | |
| A 3A | 4 | SHLD A3 | 37N | | | E1 | 37N | | |
| A 3L | | P1-D* | 22N | 22 | | P2- 14 | 22N | 16 | |
| A 3R | | P1-C* | 22N | 22 | | P2- 1 | 22N | 16 | |
| A 4 | 4 | P1-DD | 22N | 22 | | P2- 15 | 22N | 16 | |
| A 5 | 1 | | 230 | 200 | 8 7 5 | | 230 | 200 | A 14 7A |
| | | | | | A 14 | | | | |
| A 5A | 4 | SHLD A5 | 37N | | | E1 | 37N | | |
| A 5L | | P1-F* | 22N | 22 | | P2- 57 | 22N | 16 | |
| A 5R | | P1-E* | 22N | 22 | | P2- 67 | 22N | 16 | |
| A 6 | 1 | | 230 | 200 | 8 7 5 | | 230 | 200 | A 14 7A |
| | | | | | A 14 | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900990

SCALE - NONE

REV LTR

+

SHEET 7 OF 13

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|-------------|------|-------|-----------------|--|
| | 1 | 1 | 1900990-001 | WIRE ND 1002181 TYPE 2, CLASS 4, WHT JAKT, 22 AWG WHT/BLU, WHT/RED, 176 FT TOTAL LENGTH. |
| | 2 | 1 | 1900990-002 | WIRE ND 1002181 TYPE 1, CLASS 4, WHT JAKT, 22 AWG WHITE 80 FT. TOTAL LENGTH. |
| | 3 | 1 | 1900990-003 | WIRE ND 1002181 TYPE 3, CLASS 4, WHT JAKT, 22 AWG WHT/BLU, WHT/RED, WHT/YEL, 48 FT TOTAL LENGTH. |
| | 4 | 1 | 1900990-004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG WHT, 75 FT, TOTAL LENGTH. |
| 16 | 5 | 1 | MS3126F-24-61PX | (1897047-612) CONNECTOR PLUG |
| 16 | 6 | 1 | 1010411-2 | CONNECTOR |
| 10 | 7 | 11 | 1000243-8 | FERRULE ELECT. COND. |
| 10 | 8 | 11 | 1000242-7 | FERRULE ELECT. COND. |
| 10 | 9 | 3 | 1000243-11 | FERRULE ELECT. COND. |
| 10 | 10 | 3 | 1000242-11 | FERRULE ELECT. COND. |
| 10 | 11 | 5 | 1000243-3 | FERRULE ELECT. COND. |
| 10 | 12 | 5 | 1000242-2 | FERRULE ELECT. COND. |
| 10 | 13 | 3 | 1010490-258 | INSULATION SLEEVING ELECT. |
| 10 | 14 | 33 | 1010490-198 | INSULATION SLEEVING ELECT. |
| 10 | 15 | 5 | 1010490-200 | INSULATION SLEEVING ELECT. |

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

1900990

SCALE - NONE

REV LTR

+

SHEET 5 OF 13

GJD
CABLE W47
1900990

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|----------------------|---------------|-------------------|---------|----------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 6A | 4 | SHLD A6 | 37N | | | E1 | 37N | | |
| A 6L | | P1-H* | 22N | 22 | | P2- 45 | 22N | 16 | |
| A 6R | | P1-G* | 22N | 22 | | P2- 35 | 22N | 16 | |
| A 7 | 2 | | 280 | 250 | 11 12 5 | | 280 | 250 | A 15 7A |
| | | | | | A 14 | | | | |
| A 7A | 4 | SHLD A7 | 37N | | | E1 | 37N | | |
| A 7W | | P1-I* | 22N | 22 | | P2- 34 | 22N | 16 | |
| A 8 | 1 | | 280 | 250 | 8 7 5 | | 280 | 250 | A 14 7A |
| | | | | | A 14 | | | | |
| A 8A | 4 | SHLD A8 | 37N | | | E1 | 37 | | |
| A 8L | | P1-K* | 22N | 22 | | P2- 6 | 22N | 16 | |
| A 8R | | P1-J* | 22N | 22 | | P2- 20 | 22N | 16 | |
| A 9 | 1 | | 280 | 250 | 8 7 5 | | 280 | 250 | A 14 7A |
| | | | | | A 14 | | | | |
| A 9A | 4 | SHLD A18 | 37N | | | E2 | 37N | | |
| A 9L | | P1-N* | 22N | 22 | | P2- 7 | 22N | 16 | |
| A 9R | | P1-M* | 22N | 22 | | P2- 21 | 22N | 16 | |
| A 10 | 1 | | 280 | 250 | 8 7 5 | | 280 | 250 | A 14 7A |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE
A

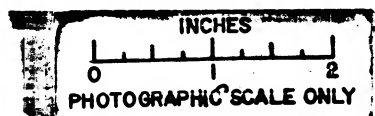
1900990

SCALE - NONE

REV LTR

+

SHEET 8 OF 13



GJD

CABLE W47

1900990

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13R | | P1-V* | 22N | 22 | | P2-107 | 22N | 16 | |
| A 13Y | | P1-X* | 22N | 22 | | P2- 94 | 22N | 16 | |
| A 14 | 1 | | 380 300 | 8 7 5 | | | 380 300 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 14A | 4 | SHLD A14 | 37N | | | E2 | 37N | | |
| A 14L | | P1-Z* | 22N | 22 | | P2- 50 | 22N | 16 | |
| A 14R | | P1-Y* | 22N | 22 | | P2- 60 | 22N | 16 | |
| A 15 | 1 | | 380 350 | 8 7 5 | | | 380 350 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 15A | 4 | SHLD A15 | 37N | | | E3 | 37N | | |
| A 15L | | P1-CC | 22N | 22 | | P2- 2 | 22N | 16 | |
| A 15R | | P1-BB | 22N | 22 | | P2- 3 | 22N | 16 | |
| A 16 | 4 | P1-AA | 22N | 22 | | P2- 16 | 22N | 16 | |
| A 17 | 3 | | 380 350 | 9 10 5 | | | 380 350 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 17A | 4 | SHLD A17 | 37N | | | E3 | 37N | | |
| A 17L | | P1-FF | 22N | 22 | | P2-105 | 22N | 16 | |
| A 17R | | P1-EE | 22N | 22 | | P2- 92 | 22N | 16 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | |
| | | | | | | SCALE-NONE | REV LTR | SHEET 10 OF 13 | |

MIL 2085 - 4-63 WIR

GJD

CABLE W47

1900990

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 17Y | | P1-GG | 22N | 22 | | P2-106 | 22N | 16 | |
| A 18 | 3 | | 380 350 | 9 10 5 | | | 380 350 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 18A | 4 | SHLD A18 | 37N | | | E3 | 37N | | |
| A 18L | | P1-JJ | 22N | 22 | | P2- 31 | 22N | 16 | |
| A 18R | | P1-MH | 22N | 22 | | P2- 32 | 22N | 16 | |
| A 18Y | | P1-KK | 22N | 22 | | P2- 43 | 22N | 16 | |
| A 19 | 1 | | 380 350 | 8 7 5 | | | 380 350 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 19A | 4 | SHLD A19 | 37N | | | E3 | 37N | | |
| A 19L | | P1-MM | 22N | 22 | | P2- 29 | 22N | 16 | |
| A 19R | | P1-LL | 22N | 22 | | P2- 28 | 22N | 16 | |
| A 20 | 4 | P1-A | 22N | 22 | | P2- 41 | 22N | 16 | |
| A 21 | 2 | | 430 400 | 11 12 5 | | | 430 400 | A 15 | 7A |
| | | | | A 14 | | | | | |
| A 21A | 4 | SHLD A21 | 37N | | | E3 | 37N | | |
| A 21W | | P1-NN | 22N | 22 | | P2- 11 | 22N | 16 | |
| A 22 | 2 | | 430 400 | 11 12 5 | | | 430 400 | A 15 | 7A |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | |
| | | | | | | SCALE-NONE | REV LTR | SHEET 11 OF 13 | |

MIL 2085 - 4-63 WIR

GJD

CABLE W47

1900990

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 10A | 4 | SHLD A10 | 37N | | | E2 | 37N | | |
| A 10L | | P1-Q* | 22N | 22 | | P2- 90 | 22N | 16 | |
| A 10R | | P1-P* | 22N | 22 | | P2-104 | 22N | 16 | |
| A 11 | 1 | | 380 300 | 8 7 5 | | | 380 300 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 11A | 4 | SHLD A11 | 37N | | | E2 | 37N | | |
| A 11L | | P1-S* | 22N | 22 | | P2- 86 | 22N | 16 | |
| A 11R | | P1-R* | 22N | 22 | | P2-100 | 22N | 16 | |
| A 12 | 1 | | 380 300 | 8 7 5 | | | 380 300 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 12A | 4 | SHLD A12 | 37N | | | E2 | 37N | | |
| A 12L | | P1-U* | 22N | 22 | | P2- 87 | 22N | 16 | |
| A 12R | | P1-T* | 22N | 22 | | P2-101 | 22N | 16 | |
| A 13 | 3 | | 380 300 | 9 10 5 | | | 380 300 | A 14 | 7A |
| | | | | A 14 | | | | | |
| A 13A | 4 | SHLD A13 | 37N | | | E2 | 37N | | |
| A 13L | | P1-W* | 22N | 22 | | P2-108 | 22N | 16 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | |
| | | | | | | SCALE-NONE | REV LTR | SHEET 9 OF 13 | |

MIL 2085 - 4-63 WIR

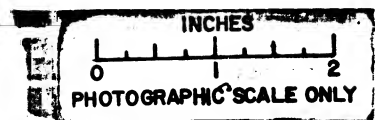
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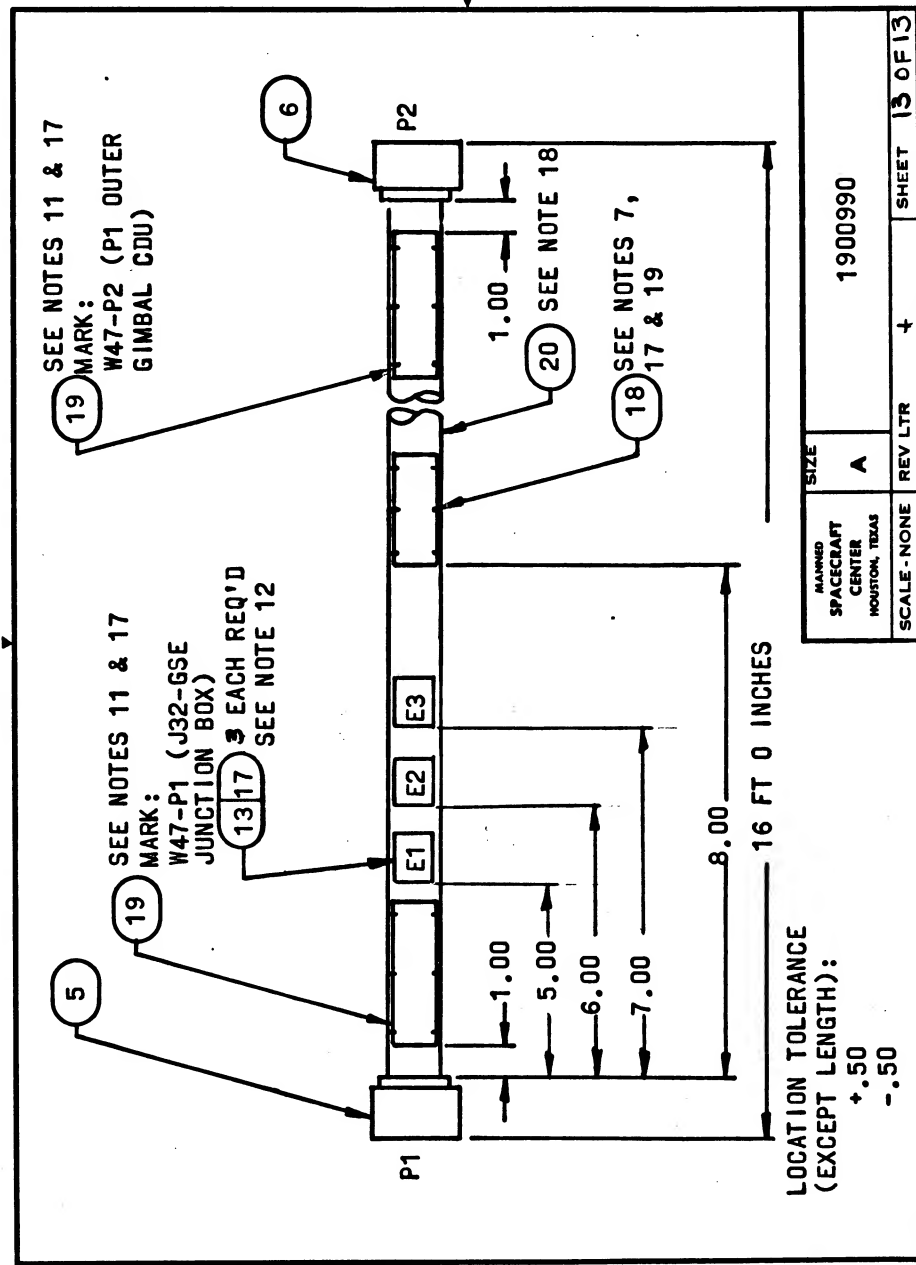
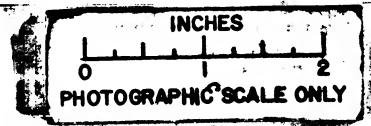
CABLE W47

1900990

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|--|---------------|-------------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| | | | | A 14 | | | | | |
| A 22A | 4 | SHLD A22 | 37N | | | E3 | 37N | | |
| A 22W | | P1-PP | 22N | 22 | | P2- 25 | 22N | 16 | |
| A 23 | 4 | P1-B | 22N | 22 | | E1 | 37N | | |
| A 24 | 4 | E1 | 37N | | | E2 | 37N | | |
| A 25 | 4 | E2 | 37N | | | E3 | 37N | | |
| A 26 | 2 | | 430 400 | 11 12 5 | | | 430 400 | A 15 | 7A |
| | | | | A 14 | | | | | |
| A 26A | 4 | SHLD A26 | 37 | | | E3 | 37N | | |
| A 26W | | P1-A* | 22 | 22 | | P2- 89 | 22N | 16 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900990 | |
| | | | | | | SCALE-NONE | REV LTR | SHEET 12 OF 13 | |

MIL 2085 - 4-63 WIR





GENERAL NOTES

NOTES

1

SEE CONDUCTOR CHART

2

SEE CONDUCTOR CHART

3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4

MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

5

SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.

6

SPIRALLING OF THE MARKING IS ALLOWED.

7

IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.

8

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

9

A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.

10

VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11

MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A

1900991

SCALE - NONE

REV LTR +

SHEET 2 OF 10

GENERAL NOTES

NOTES

12

MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

13

MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

14

A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

15

THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.

A - FROM END SHIELD
L - WHITE WITH BLUE TRACER OR LETTER L
R - WHITE WITH RED TRACER OR LETTER R
Y - WHITE WITH YELLOW TRACER OR LETTY Y

16

ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES

17

THE FOLLOWING CONDUCTORS ARE TO BE TWISTED TOGETHER WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER.

18

SECURE TO CABLE USING ITEM 15, MARKING TO READ AWAY FROM CONNECTOR.

19

SEAL ZIPPER TUBING PER ND 1002153.

20

SERIALIZE PER ND 1002023

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A

1900991

SCALE - NONE

REV LTR +

SHEET 3 OF 10

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05663 DATE 1/7/64

REVISIONS

DESCRIPTION

DATE

APPROVAL

APPLICATION

USED ON

1900005-011

REV

SHEET

REV STATUS

REV

OF SHEETS

1

2

3

4

5

6

7

8

9

10

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

CABLE INTERCONNECT W61 ISS TESTING

CODE IDENT NO.

SIZE A

1900991

REV +

SHEET 1 OF 10

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 11/1/63

CHECKED DATE 12/1/63

APPROVAL

APPROVAL

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

GENERAL NOTES

21

THIS ITEM FURNISHED WITH ITEM 6.

22

THIS ITEM FURNISHED WITH ITEM 7.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD

UNDER 1 INCH

1 INCH TO 6 INCHES

6 INCHES TO 6 FEET

OVER 6 FEET

TOLERANCE

WIRE OR CABLE

STRIP WIRE

STRIP JACKET

CUT WIRE

CUT SHIELD

+ .06-.00

+ .03-.00

+ .06-.06

+ .06-.06

+ .06-.06

+ .50-.00

+ .06-.00

+ .25-.25

+ .25-.25

+ .25-.25

+1.00-.00

+ .50-.50

+ .50-.50

+ .50-.50

+ .50-.50

+2.00-.00

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

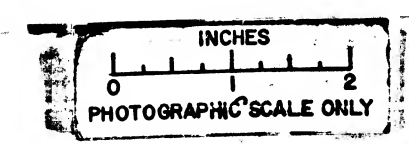
SIZE A

1900991

SCALE - NONE

REV LTR +

SHEET 4 OF 10



| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 16 | 14 | 1010490-200 | INSULATION SLEEVING ELECT |
| | 17 | 1 | 1900991-006 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 1/2 DIA 1 FEET 3 INCHES TOTAL LENGTH |
| 21 | 18 | | | CONNECTOR CONTACTS, PIN |
| 22 | 19 | | | CONNECTOR CONTACTS SOCKET |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900991 |
| SCALE - NONE | REV LTR + | SHEET 6 OF 10 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 1 | | | A 16 | | | | A 16 | |
| A 1L | | P1-B | 25N | 18 | | P2-B | 25N | 19 | |
| A 1R | | P1-A | 25N | 18 | | P2-A | 25N | 19 | |
| A 1Y | | P1-C | 25N | 18 | | P2-C | 25N | 19 | |
| A 2 | 3 | P1-D | 25N | 18 | | P2-D | 25N | 19 | |
| A 3 | 3 | P1-E | 25N | 18 | | P2-E | 25N | 19 | |
| A 4 | 3 | P1-F | 25N | 18 | | P2-F | 25N | 19 | |
| A 5 | 3 | P1-G | 25N | 18 | | P2-G | 25N | 19 | |
| A 6 | 2 | | | A 16 | | | | A 16 | |
| A 6L | | P1-J | 25N | 18 | | P2-J | 25N | 19 | |
| A 6R | | P1-H | 25N | 18 | | P2-H | 25N | 19 | |
| A 7 | 3 | P1-K | 25N | 18 | | P2-K | 25N | 19 | |
| A 8 | 2 | | | A 16 | | | | A 16 | |
| A 8L | | P1-L | 25N | 18 | | P2-L | 25N | 19 | |
| A 8R | | P1-M | 25N | 18 | | P2-M | 25N | 19 | |
| A 9 | 3 | P1-N | 25N | 18 | | P2-N | 25N | 19 | |
| A 10 | 3 | P1-P | 25N | 18 | | P2-P | 25N | 19 | |
| A 11 | 3 | P1-Y | 25N | 18 | | P2-Y | 25N | 19 | |

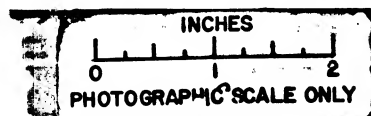
| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900991 |
| SCALE - NONE | REV LTR + | SHEET 7 OF 10 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|----------------|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900991-001 | WIRE ND.1002181, TYPE 3, CLASS 1 T3, 20 AWG, WHITE WITH LETTER L, WHITE WITH LETTER R, WHITE WITH LETTER Y, 15 INCHES TOTAL LENGTH. |
| | 2 | 1 | 1900991-002 | WIRE ND 1002181, TYPE 2, CLASS 1, T2, 20 AWG, WHITE WITH LETTER L, WHITE WITH LETTER R 75 INCHES TOTAL LENGTH. |
| | 3 | 1 | 1900991-003 | WIRE ND 1002181, TYPE 1, CLASS 1, 20 AWG WHITE 65 INCHES TOTAL LENGTH. |
| | 4 | 1 | 1900991-004 | WIRE ND 1002181, TYPE 1, CLASS 1, 22 AWG WHITE 10 INCHES TOTAL LENGTH |
| | 5 | 1 | 1900991-005 | WIRE ND 1002181, TYPE 2, CLASS 4, WHT JAKT, 20 AWG, WHT/BLU, WHT/RED 30 IN TOTAL LENGTH |
| 16 | 6 | 1 | MS3126F18-32PX | (1897125-322) CONNECTOR-PLUG |
| 16 | 7 | 1 | MS3126F18-32SX | (1897092-322) CONNECTOR-PLUG |
| 10 | 8 | 4 | 1000243-11 | FERRULE-ELECT COND. |
| 10 | 9 | 2 | 1000242-9 | FERRULE-ELECT COND. |
| 10 | 10 | 1 | 1010490-198 | INSULATION-SLEEVING ELECT |
| 10 | 11 | 1 | 1016006-002 | SPLICE REDUCER |
| 10 | 12 | 1 | 1010490-258 | INSULATION - SLEEVING ELECT |
| 10 | 13 | 2 | 1016128-011 | IDENTIFICATION BAND |
| 10 | 14 | 1 | 1016128-041 | IDENTIFICATION BAND |
| | 15 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 No.18) |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900991 |
| SCALE - NONE | REV LTR + | SHEET 5 OF 10 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|-----|----------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 12 | 5 | | 250 220 | 8 9 5 | | | 250 220 | 8 A 10 7A | |
| | | | | A 10 | | | | | |
| A 12A | 4 | SHLD A12 | 25N | | | E1 | 37N | | |
| A 12L | | P1-W | 25N | 18 | | P2-W | 25N | 19 | |
| A 12R | | P1-V | 25N | 18 | | P2-V | 25N | 19 | |
| A 13 | 5 | | 250 220 | 8 9 5 | | | 250 220 | 8 A 10 7A | |
| | | | | A 10 | | | | | |
| A 13A | 4 | SHLD A13 | 25N | | | E1 | 37N | | |
| A 13L | | P1-R | 25N | 18 | | P2-R | 25N | 19 | |
| A 13R | | P1-X | 25N | 18 | | P2-X | 25N | 19 | |
| A 14 | 3 | P1-Z | 25N | 18 | | P2-Z | 25N | 19 | |
| A 15 | 3 | P1-A* | 25N | 18 | | P2-A* | 25N | 19 | |
| A 16 | 2 | | | A 16 | | | | A 16 | |
| A 16L | | P1-C* | 25N | 18 | | P2-C* | 25N | 19 | |
| A 16R | | P1-B* | 25N | 18 | | P2-B* | 25N | 19 | |
| A 17 | 2 | | | A 16 | | | | A 16 | |
| A 17L | | P1-E* | 25N | 18 | | P2-E* | 25N | 19 | |
| A 17R | | P1-D* | 25N | 18 | | P2-D* | 25N | 19 | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900991 |
| SCALE - NONE | REV LTR + | SHEET 8 OF 10 |



GIT

CABLE W-61

1900991

| CONDUCTOR | | FROM | | TO | | TERMINATION NO. | ITEM NO. | CUT WIRE OR SHIELD | CIRCUIT POINT | TERMINATION NO. | ITEM NO. | CUT WIRE OR SHIELD | CIRCUIT POINT | TERMINATION NO. | ITEM NO. |
|-----------|---|----------|-----|----------|-----|-----------------|----------|--------------------|---------------|-----------------|----------|--------------------|---------------|-----------------|----------|
| | | ITEM NO. | NO. | ITEM NO. | NO. | | | | | | | | | | |
| A 18 | 2 | | | | | | A 16 | | | | | | | | |
| A 18L | | | | | | | | | | | | | | | |
| A 18R | | | | | | | | | | | | | | | |
| A 19 | 3 | | | | | | A 16 | | | | | | | | |
| A 20 | 2 | | | | | | | | | | | | | | |
| A 20L | | | | | | | | | | | | | | | |
| A 20R | | | | | | | | | | | | | | | |
| A 21 | 3 | | | | | | | | | | | | | | |
| A 22 | 3 | | | | | | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

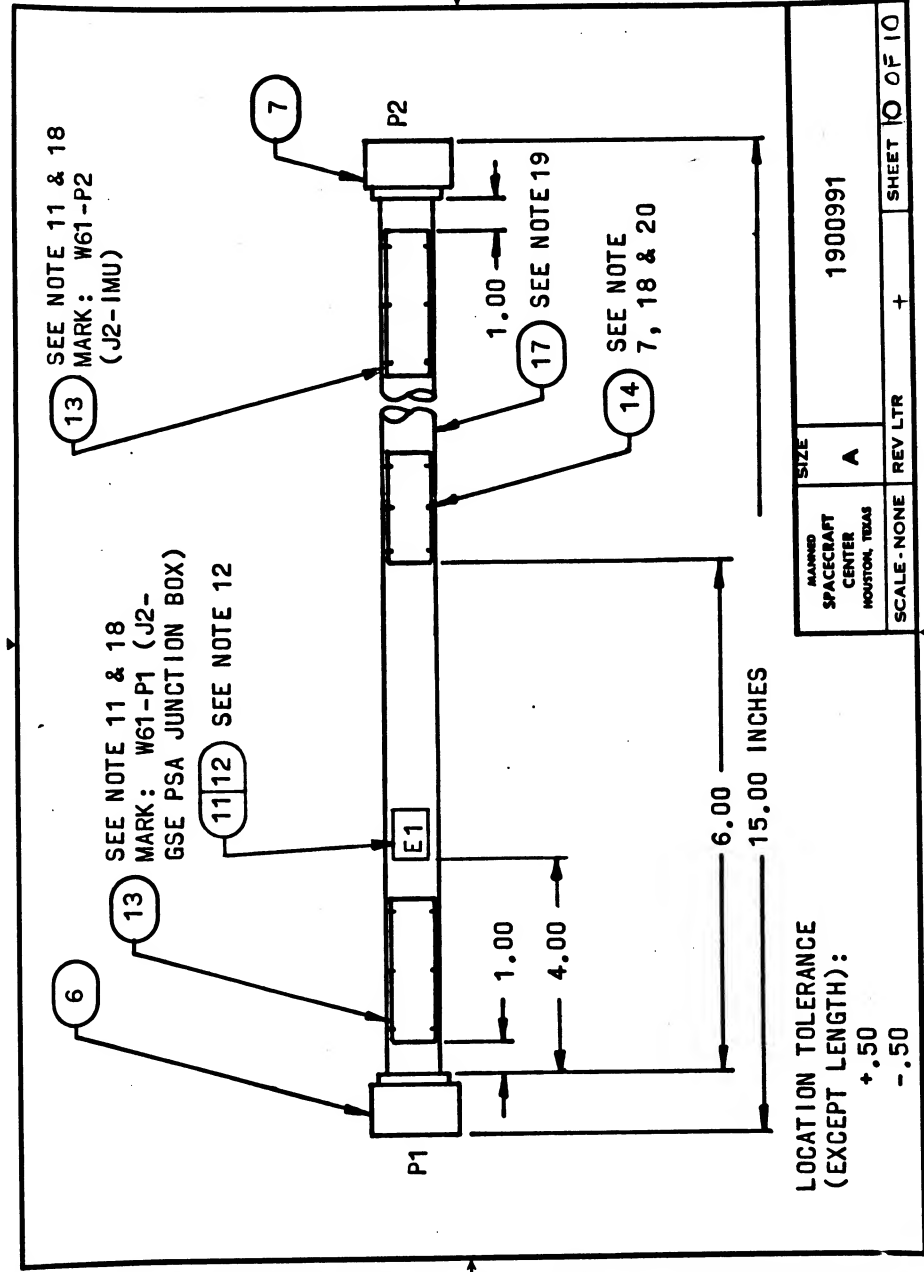
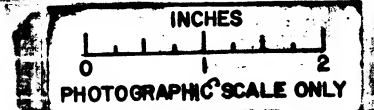
MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900991

SCALE - NONE REV LTR + SHEET 9 OF 10



LOCATION TOLERANCE
(EXCEPT LENGTH):
+.50
-.50

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900991

SCALE - NONE REV LTR + SHEET 10 OF 10

| GIU | | CABLE W-42 | | B | | 1900992 | |
|--|---|------------|--|-----------|--|---------------|--|
| PENNANT GENERAL NOTES | | | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900992 | |
| SCALE - NONE | | | | REV LTR B | | SHEET 2 OF 13 | |

| GIU | | CABLE W-42 | | B | | 1900992 | |
|--|--|------------|--|-----------|--|---------------|--|
| PENNANT GENERAL NOTES | | | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L R - WHITE WITH RED TRACER OR WHITE WITH LETTER R Y - WHITE WITH YELLOW TRACER OR WHITE WITH LETTER Y W - WHITE | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 19, MARKING TO READ AWAY FROM CONNECTOR | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | THIS ITEM FURNISHED WITH ITEM 7 | | | | | | |
| 21 | THIS ITEM FURNISHED WITH ITEM 8 | | | | | | |
| 22 | ITEM 23 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 23 AS REQUIRED TO FIT. | | | | | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900992 | |
| SCALE - NONE | | | | REV LTR B | | SHEET 3 OF 13 | |

| GIU | | CABLE W-42 | | B | | 1900992 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|------------|--------------|-----------|------------|---------------|--|--|---------------|------|--------------|------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|--|-----------|-----------|-----------|-------------|-----------|--|--|--|--|
| PENNANT GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | +2.00-.00 | | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900992 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | REV LTR B | | SHEET 4 OF 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GIU | | CABLE W-42 | | B | | 1900992 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|------------|--------------|-----------|------------|---------------|--|--|---------------|------|--------------|------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|--|-----------|-----------|-----------|-------------|-----------|--|--|--|--|
| PENNANT GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | +2.00-.00 | | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900992 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | REV LTR B | | SHEET 4 OF 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PENMANT | | LIST OF MATERIALS | | |
|---------|----------|-------------------|-------------------------------|---|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| | 1 | 1 | 1900992-001 | WIRE ND1002181, TYPE 2, CLASS 4 WHT JAKT 20AWG WHT/BLU; WHT/RED 48 FT. - 0 INCH TOTAL LENGTH. |
| | 2 | 1 | 1900992-002 | WIRE ND1002181, TYPE 1, CLASS 4 WHT JAKT 20AWG WHITE 64 FT. - 0 INCH TOTAL LENGTH. |
| | 3 | 1 | 1900992-003 | WIRE ND1002181, TYPE 1, CLASS 1, WHT JAKT 20AWG WHITE 328 FT. - 0 INCH TOTAL LENGTH |
| | 4 | 1 | 1900992-004 | WIRE ND1002181, TYPE 2, CLASS 1 T2 20AWG WHT WITH LETTER L WHT WITH LETTER R 80 FT - 0 IN. TOTAL LENGTH |
| | 5 | 1 | 1900992-005 | WIRE ND1002181, TYPE 3, CLASS 1 T3 20AWG WHT WITH LETTER L WHT WITH LETTER R, WHT WITH LETTER Y 32 FT. - 0 INCH TOTAL LENGTH. |
| | 6 | 1 | 1900992-006 | WIRE ND1002181, TYPE 1 CLASS 1 22AWG WHT 4 FT. - 0 INCH TOTAL LENGTH. |
| 16 | 7 | 1 | MS3126F-24-61PW (1897047-611) | CONNECTOR PLUG |
| 16 | 8 | 1 | MS3126F-24-61SX (1897048-612) | CONNECTOR PLUG |
| 10 | 9 | 5 | 1000242-011 | FERRULE-ELECT. COND |
| 10 | 10 | 3 | 1000243-009 | FERRULE-ELECT. COND |
| 10 | 11 | 8 | 1000242-005 | FERRULE-ELECT. COND |
| 10 | 12 | 4 | 1000243-004 | FERRULE-ELECT. COND |
| 10 | 13 | 14 | 1010490-198 | INSULATION-SLEEVEING, ELECT. |
| 10 | 14 | 16 | 1010490-200 | INSULATION-SLEEVEING, ELECT. |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| SCALE - NONE | REV LTR 8 |

1900992

SHEET 5 OF 1

| PENMANANT | | LIST OF MATERIALS | | |
|-----------|----------|-------------------|--|--|
| NOTE | ITEM QTY | PART NO | DESCRIPTION | |
| 10 | 15 1 | 1010490-258 | INSULATION-SLEEVING, ELECT. | |
| 10 | 16 1 | 1016006-002 | SPLICE REDUCER | |
| 10 | 17 2 | 1016128-011 | IDENTIFICATION BAND | |
| 10 | 18 1 | 1016128-041 | IDENTIFICATION BAND | |
| | 19 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | |
| | 20 1 | 1900992-007 | ZIPPER TUBING ND1002155, TYPE 1 PLASTIC FLEXIBLE 7/8 DIA. 16 FT. 0 IN. TOTAL LENGTH | |
| 20 | 21 | | CONNECTOR PIN | |
| 21 | 22 | | CONNECTOR SOCKET | |
| 22 | 23 AR | | 1897147-112, 116, CABLE CLAMP SLEEVE | |

| | | |
|--|---------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900992 |
| | A | |
| SCALE - NONE | REV LTR | SHEET |

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|----------|-------------------|----------|---------------------|----------|-------------------|-----------|--|--|
| INC. EQUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR JACKET | | TERMINATION SPEC. | | | |
| ITEM NO. | ITEM NO. | STEP WIRE OR JACKET | ITEM NO. | ITEM NO. | ITEM NO. | STEP WIRE OR JACKET | ITEM NO. | ITEM NO. | ITEM NO. | | |
| NUMBER | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | | |
| A 1 | 5 | | A 14 | | | | | A 14 | | | |
| A 1L | | P1-V | 25N | 21 | | P2-V | 25N | 22 | | | |
| A 1R | | P1-T | 25N | 21 | | P2-T | 25N | 22 | | | |
| A 1Y | | P1-U | 25N | 21 | | P2-U | 25N | 22 | | | |
| A 2 | 3 | P1-W | 25N | 21 | | P2-W | 25N | 22 | | | |
| A 3 | 3 | P1-Y | 25N | 21 | | P2-Y | 25N | 22 | | | |
| A 4 | 3 | P1-Z | 25N | | | P2-Z | 25N | 22 | | | |
| A 5 | 1 | | 23G | 20G | 9 10 | | 23G | 20G | 9 A 13 7A | | |
| | | | A 13 | | | | | | | | |
| A 5A | 6 | SHLD A5 | 25N | | | E1 | 37N | | | | |
| A 5L | | P1-B* | 25N | 21 | | P2-B* | 25N | 22 | | | |
| A 5R | | P1-A* | 25N | 21 | | P2-A* | 25N | 22 | | | |
| A 6 | 5 | | A 14 | | | | | A 14 | | | |
| A 6L | | P1-E* | 25N | 21 | | P2-E* | 25N | 22 | | | |
| A 6R | | P1-C* | 25N | 21 | | P2-C* | 25N | 22 | | | |
| A 6Y | | P1-D* | 25N | 21 | | P2-D* | 25N | 22 | | | |
| A 7 | 4 | | A 14 | | | | | A 14 | | | |
| A 7L | | P1-G* | 25N | 21 | | P2-G* | 25N | 22 | | | |

▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
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1900992

SCALE - NONE

REV LTR B

SHEET 7 OF 2

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|---|----------------------|------|-----|-------------------|----------|----|----------------------|---|-----|-------------------|----------|---------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 3 | T | 3 | ITEM NO. | 3 | STRIP WIRE OR JACKET | 3 | T | 3 | ITEM NO. | 3 |
| | | | CIRCUIT POINT | 3 | N | 3 | | | CIRCUIT POINT | 3 | N | 3 | | |
| A | 7R | | P1-F* | | 25N | | 21 | | P2-F* | | 25N | | 22 | |
| A | 8 | 4 | | | | | A 14 | | | | | | A 14 | |
| A | 8L | | P1-I* | | 25N | | 21 | | P2-I* | | 25N | | 22 | |
| A | 8R | | P1-H* | | 25N | | 21 | | P2-H* | | 25N | | 22 | |
| A | 9 | 4 | | | | | A 14 | | | | | | A 14 | |
| A | 9L | | P1-N* | | 25N | | 21 | | P2-N* | | 25N | | 22 | |
| A | 9R | | P1-M* | | 25N | | 21 | | P2-M* | | 25N | | 22 | |
| A | 10 | 3 | P1-P* | | 25N | | 21 | | P2-P* | | 25N | | 22 | |
| A | 11 | 2 | | | 23G | 20G | 11 12 | 5 | | | 23G | 20G | 11 12 | A 13 74 |
| | | | | | | | A 13 | | | | | | | |
| A | 11A | 6 | SHLD A11 | | 25N | | | | E1 | | 37N | | | |
| A | 11W | | P1-Q* | | 25N | | 21 | | P2-Q* | | 25N | | 22 | |
| A | 12 | 2 | | | 23G | 20G | 11 12 | 5 | | | 23G | 20G | 11 12 | A 13 74 |
| | | | | | | | A 13 | | | | | | | |
| A | 12A | 6 | SHLD A12 | | 25N | | | | E1 | | 37N | | | |
| A | 12W | | P1-R* | | 25N | | 21 | | P2-R* | | 25N | | 22 | |
| A | 13 | 2 | | | 23G | 20G | 11 12 | 5 | | | 23G | 20G | 11 12 | A 13 74 |
| | | | | | | | A 13 | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
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HOUSTON, TEXAS

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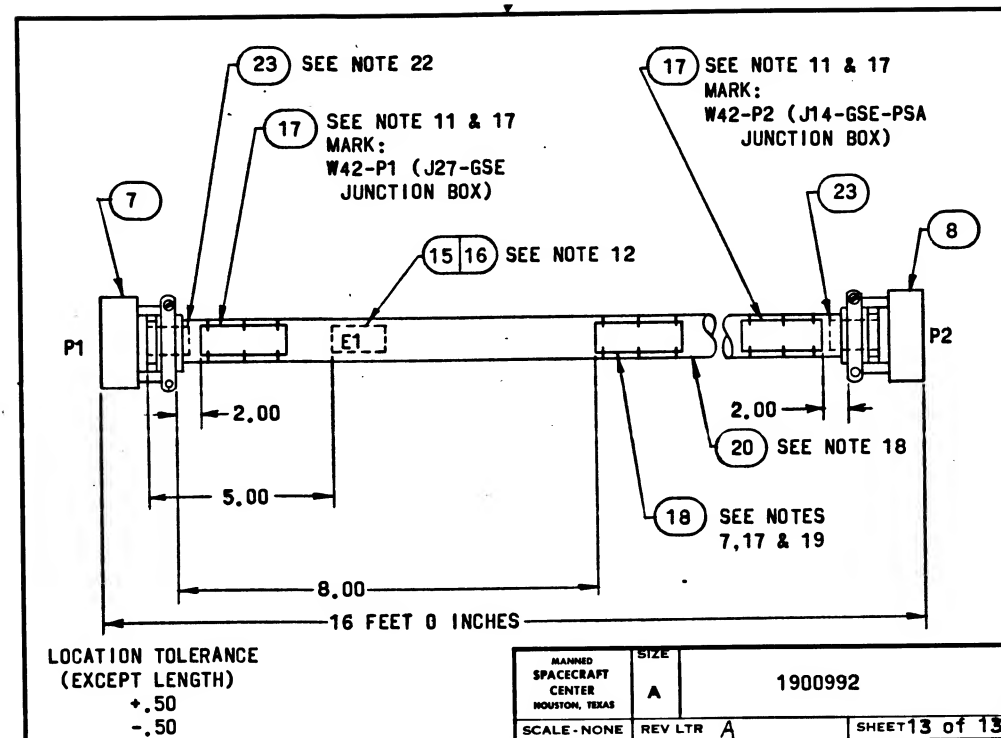
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| GIU | | | | CABLE W-42 | | | | | | | | | | B 1900992 | | | | | | | | | | | | | | | | | |
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| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | | | | | | | | | |
| NUMBER | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | | | | | | | | |
| A 13A | 6 | | | SHLD A13 | 25N | | | | | | | | | | E1 | 37N | | | | | | | | | | | | | | | |
| A 13W | | | | P1-S* | 25N | 21 | | | | | | | | | P2-S* | 25N | 22 | | | | | | | | | | | | | | |
| A 14 | 3 | | | P1-T* | 25N | 21 | | | | | | | | | P2-T* | 25N | 22 | | | | | | | | | | | | | | |
| A 15 | 3 | | | P1-U* | 25N | 21 | | | | | | | | | P2-U* | 25N | 22 | | | | | | | | | | | | | | |
| A 16 | 3 | | | P1-V* | 25N | 21 | | | | | | | | | P2-V* | 25N | 22 | | | | | | | | | | | | | | |
| A 17 | 3 | | | P1-W* | 25N | 21 | | | | | | | | | P2-W* | 25N | 22 | | | | | | | | | | | | | | |
| A 18 | 3 | | | P1-X* | 25N | 21 | | | | | | | | | P2-X* | 25N | 22 | | | | | | | | | | | | | | |
| A 19 | 3 | | | P1-AA | 25N | 21 | | | | | | | | | P2-AA | 25N | 22 | | | | | | | | | | | | | | |
| A 20 | 3 | | | P1-BB | 25N | 21 | | | | | | | | | P2-BB | 25N | 22 | | | | | | | | | | | | | | |
| A 21 | 3 | | | P1-CC | 25N | 21 | | | | | | | | | P2-CC | 25N | 22 | | | | | | | | | | | | | | |
| A 22 | 3 | | | P1-DD | 25N | 21 | | | | | | | | | P2-DD | 25N | 22 | | | | | | | | | | | | | | |
| A 23 | 3 | | | P1-EE | 25N | 21 | | | | | | | | | P2-EE | 25N | 22 | | | | | | | | | | | | | | |
| A 24 | 3 | | | P1-KK | 25N | 21 | | | | | | | | | P2-KK | 25N | 22 | | | | | | | | | | | | | | |
| A 25 | 1 | | | | 28Q | 25U | 9 | 10 | 5 | | | | | | | 28Q | 25U | 9 | A 13 | 7A | | | | | | | | | | | |
| | | | | | | | | | | A 13 | | | | | | | | | | | | | | | | | | | | | |
| A 25A | 6 | | | SHLD A25 | 25N | | | | | | | | | | E1 | 37N | | | | | | | | | | | | | | | |
| A 25L | | | | P1-NN | 25N | 21 | | | | | | | | | P2-NN | 25N | 22 | | | | | | | | | | | | | | |
| A 25R | | | | P1-MM | 25N | 21 | | | | | | | | | P2-MM | 25N | 22 | | | | | | | | | | | | | | |
| | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1900992 | | | | | | | | | | | |
| 1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | B | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | SHEET 9 OF 13 | | | | | | | | | | | |



| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|-------------|--|
| 10 | 13 | 12 | 1010490-198 | INSULATION - SLEEVING, ELECT |
| 10 | 14 | 18 | 1010490-200 | INSULATION - SLEEVING, ELECT |
| 10 | 15 | 1 | 1010490-258 | INSULATION - SLEEVING, ELECT |
| 10 | 16 | 1 | 1016006-002 | SPLICE REDUCER |
| 10 | 17 | 2 | 1016128-011 | IDENTIFICATION BAND |
| 10 | 18 | 1 | 1016128-041 | IDENTIFICATION BAND |
| 10 | 19 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| 20 | 20 | 1 | 1900992-007 | ZIPPER TUBING ND 1002155, TYPE 1 PLASTIC FLEXIBLE 7/8 DIA 16 FT. 0 IN TOTAL LENGTH |
| 21 | 21 | | | CONNECTOR PIN |
| 21 | 22 | | | CONNECTOR SOCKET |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900992 |
| SCALE - NONE | REV LTR + | SHEET 6 OF 12 |

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|-----------------|--|
| | 1 | 1 | 1900992-001 | WIRE ND 1002181, TYPE 2, CLASS 4 WHT JAKT 20 AWG WHT/BLU, WHT/RED 32 FT - 0 INCH TOTAL LENGTH. |
| | 2 | 1 | 1900992-002 | WIRE ND 1002181, TYPE 1, CLASS 4 WHT JAKT 20 AWG WHITE 64 FT. - 0 INCH TOTAL LENGTH. |
| | 3 | 1 | 1900992-003 | WIRE ND 1002181, TYPE 1, CLASS 1, WHT JAKT 20 AWG WHITE 544 FT. - 0 INCH TOTAL LENGTH |
| | 4 | 1 | 1900992-004 | WIRE ND 1002181, TYPE 2, CLASS 1 T2 20 AWG WHITE WITH LETTER L WHITE WITH LETTER R 96 FT-0 INCH TOTAL LENGTH |
| | 5 | 1 | 1900992-005 | WIRE ND 1002181, TYPE 3, CLASS 1 T3 20 AWG WHITE WITH LETTER L WHITE WITH LETTER R, WHITE WITH LETTER Y 32 FT - 0 INCH TOTAL LENGTH. |
| | 6 | 1 | 1900992-006 | WIRE ND 1002181, TYPE 1 CLASS 1 22 AWG WHITE 4 FT - 0 INCH TOTAL LENGTH. |
| 16 | 7 | 1 | MS3126F-24-61PW | (1897047-611) CONNECTOR PLUG |
| 16 | 8 | 1 | MS3126F-24-61SX | (1897048-612) CONNECTOR PLUG |
| 10 | 9 | 4 | 1000242-11 | FERRULE-ELECT COND |
| 10 | 10 | 2 | 1000243-9 | FERRULE-ELECT COND |
| 10 | 11 | 8 | 1000242-5 | FERRULE-ELECT COND |
| 10 | 12 | 4 | 1000243-4 | FERRULE-ELECT COND |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900992 |
| SCALE - NONE | REV LTR + | SHEET 5 OF 12 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|--------------------|-------------------|------------|--------------------|-------------------|---------------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | 1 | 2 | 3 | 4 | 1 | 2 | 3 | | |
| 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | | |
| A 1 | 5 | | | | A 14 | | | | |
| A 1L | | P1-V | 25N | 21 | P2-V | 25N | 22 | | |
| A 1R | | P1-T | 25N | 21 | P2-T | 25N | 22 | | |
| A 1Y | | P1-U | 25N | 21 | P2-U | 25N | 22 | | |
| A 2 | 3 | P1-W | 25N | 21 | P2-W | 25N | 22 | | |
| A 3 | 3 | P1-Y | 25N | 21 | P2-Y | 25N | 22 | | |
| A 4 | 3 | P1-Z | 25N | 21 | P2-Z | 25N | 22 | | |
| A 5 | 1 | | 230 | 200 9 10 5 | | 230 | 200 9 A 13 7A | | |
| | | | | A 13 | | | | | |
| A 5A | 6 | SHLD A5 | 25N | | E1 | 37N | | | |
| A 5L | | P1-B* | 25N | 21 | P2-B* | 25N | 22 | | |
| A 5R | | P1-A* | 25N | 21 | P2-A* | 25N | 22 | | |
| A 6 | 5 | | | A 14 | | | A 14 | | |
| A 6L | | P1-E* | 25N | 21 | P2-E* | 25N | 22 | | |
| A 6R | | P1-C* | 25N | 21 | P2-C* | 25N | 22 | | |
| A 6Y | | P1-D* | 25N | 21 | P2-D* | 25N | 22 | | |
| A 7 | 4 | | | A 14 | | | A 14 | | |
| A 7L | | P1-G* | 25N | 21 | P2-G* | 25N | 22 | | |

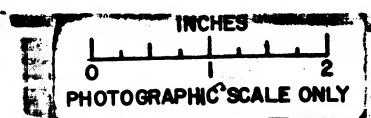
THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900992 |
| SCALE - NONE | REV LTR + | SHEET 7 OF 12 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|--------------------|-------------------|-------------|--------------------|-------------------|----------------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | 1 | 2 | 3 | 4 | 1 | 2 | 3 | | |
| 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | | |
| A 7R | | P1-F* | 25N | 21 | P2-F* | 25N | 22 | | |
| A 8 | 4 | | | A 14 | | | A 14 | | |
| A 8L | | P1-I* | 25N | 21 | P2-I* | 25N | 22 | | |
| A 8R | | P1-H* | 25N | 21 | P2-H* | 25N | 22 | | |
| A 9 | 4 | | | A 14 | | | A 14 | | |
| A 9L | | P1-N* | 25N | 21 | P2-N* | 25N | 22 | | |
| A 9R | | P1-M* | 25N | 21 | P2-M* | 25N | 22 | | |
| A 10 | 3 | P1-P* | 25N | 21 | P2-P* | 25N | 22 | | |
| A 11 | 2 | | 230 | 200 11 12 5 | | 230 | 200 11 A 13 7A | | |
| | | | | A 13 | | | | | |
| A 11A | 6 | SHLD A11 | 25N | | E1 | 37N | | | |
| A 11W | | P1-Q* | 25N | 21 | P2-Q* | 25N | 22 | | |
| A 12 | 2 | | 230 | 200 11 12 5 | | 230 | 200 11 A 13 7A | | |
| | | | | A 13 | | | | | |
| A 12A | 6 | SHLD A12 | 25N | | E1 | 37N | | | |
| A 12W | | P1-R* | 25N | 21 | P2-R* | 25N | 22 | | |
| A 13 | 2 | | 230 | 200 11 12 5 | | 230 | 200 11 A 13 7A | | |
| | | | | A 13 | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900992 |
| SCALE - NONE | REV LTR + | SHEET 8 OF 12 |



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1900992

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|---|--|--|----------------------|-----|------|-------|----------------------|-------|-----|----------------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | | | | ITEM NO. | | | | ITEM NO. | | | |
| A 26 | 3 | | | P1-PP | 25N | 21 | | | P2-PP | 25N | 22 |
| A 27 | 2 | | | | 280 | 250 | 11 12 | 5 | | 280 | 250 11 A 13 7A |
| | | | | | | A 13 | | | | | |
| A 27A | 6 | | | SHLD A27 | 25N | | | | E1 | 37N | |
| A 27W | | | | P1-S | 25N | 21 | | | P2-S | 25N | 22 |
| A 28 | 3 | | | P1-M | 25N | 21 | | | P2-M | 25N | 22 |
| A 29 | 3 | | | P1-N | 25N | 21 | | | P2-N | 25N | 22 |
| A 30 | 3 | | | P1-P | 25N | 21 | | | P2-P | 25N | 22 |
| A 31 | 3 | | | P1-L | 25N | 21 | | | P2-L | 25N | 22 |
| A 32 | 3 | | | P1-LL | 25N | 21 | | | P2-LL | 25N | 22 |
| A 33 | 3 | | | P1-Z* | 25N | 21 | | | P2-Z* | 25N | 22 |
| A 34 | 3 | | | P1-FF | 25N | 21 | | | P2-FF | 25N | 22 |
| A 35 | 3 | | | P1-GG | 25N | 21 | | | P2-GG | 25N | 22 |
| A 36 | 3 | | | P1-HH | 25N | 21 | | | P2-HH | 25N | 22 |
| A 37 | 3 | | | P1-JJ | 25N | 21 | | | P2-JJ | 25N | 22 |
| A 38 | 3 | | | P1-K* | 25N | 21 | | | P2-K* | 25N | 22 |
| A 39 | 3 | | | P1-B | 25N | 21 | | | E1 | 37N | |
| A 40 | 3 | | | P1-J* | 25N | 21 | | | P2-J* | 25N | 22 |
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| G1W | | CABLE W-48 | | A | | 1900993 | |
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| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900993 | |
| | | SCALE-NONE | | REV LTR A | | SHEET 2 OF 13 | |

| G1W | | CABLE W-48 | | A | | 1900993 | |
|---------|--|---|--|-----------|--|---------------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | THIS ITEM FURNISHED WITH ITEM 5 | | | | | | |
| 21 | ITEM 23 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 23 AS REQUIRED TO FIT. | | | | | | |
| 22 | SEE NOTES 10 AND 16 | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900993 | |
| | | SCALE-NONE | | REV LTR A | | SHEET 3 OF 13 | |

| G1W | | CABLE W-48 | | A | | 1900993 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|---|--------------|-----------|------------|---------------|--|--|---------------|------|--------------|------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|------------|--|-----------|-----------|-----------|-------------|------------|--|--|--|--|
| PENNANT | | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.</th> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .06-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+ 1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+ 2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | + 2.00-.00 | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | + 2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900993 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | | REV LTR A | | SHEET 4 OF 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| G1W | | CABLE W-48 | | A | | 1900993 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|---|--------------|-----------|------------|---------------|--|--|---------------|------|--------------|------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|------------|--|-----------|-----------|-----------|-------------|------------|--|--|--|--|
| PENNANT | | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | + 2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900993 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | | REV LTR A | | SHEET 4 OF 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|----------|------------|-------------------|------------------------------|--|
| GIW | CABLE W-48 | A | 1900993 | |
| PENNAINT | | LIST OF MATERIALS | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
| | 1 | 1 | 1900993-001 | WIRE ND1002181 TYPE 2 CLASS 4 WHT JAKT 22AWG WHT/BLU. WHT/RED - 176 FT. TOTAL LENGTH. |
| | 2 | 1 | 1900993-002 | WIRE ND1002181 TYPE 1 CLASS 4 WHT JAKT 22AWG WHT. 64 FT. TOTAL LENGTH |
| | 3 | 1 | 1900993-003 | WIRE ND1002181 TYPE 3. CLASS 4 WHT JAKT 22AWG WHT/RED. WHT/BLU. WHT/YEL 48 FT. TOTAL LENGTH. |
| | 4 | 1 | 1900993-004 | WIRE ND1002181 TYPE 1. CLASS 1. 22AWG. WHT 75 FT. TOTAL LENGTH. |
| 16 | 5 | 1 | M53126F-24-61P (1897047-610) | CONNECTOR-PLUG |
| 22 | 6 | 1 | 1010411-002 | CONNECTOR |
| 10 | 7 | 11 | 1000243-008 | FERRULE. ELEC. COND |
| 10 | 8 | 11 | 1000242-007 | FERRULE. ELEC. COND |
| 10 | 9 | 3 | 1000243-011 | FERRULE. ELEC. COND |
| 10 | 10 | 3 | 1000242-011 | FERRULE. ELEC. COND |
| 10 | 11 | 4 | 1000243-003 | FERRULE. ELEC. COND |
| 10 | 12 | 4 | 1000242-002 | FERRULE. ELEC. COND |
| 10 | 13 | 3 | 1010490-250 | INSULATION. SLEEVING. ELECT. |
| 10 | 14 | 32 | 1010490-198 | INSULATION. SLEEVING. ELECT. |
| 10 | 15 | 4 | 1010490-200 | INSULATION. SLEEVING. ELECT. |
| 10 | 16 | 108 | 1010464-002 | CONNECTOR. CONTACTS. SOCKET |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR A | SHEET 5 OF 13 |

| | | | | | | | |
|----------|------|-------------------|-------------|--|--|---------|--|
| GIW | | CABLE W-48 | | D | | 1900993 | |
| PENNAINT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 10 | 17 | 3 | 1016006-002 | SPLICE REDUCER | | | |
| 10 | 18 | 1 | 1016128-011 | BAND, IDENTIFICATION | | | |
| 10 | 19 | 2 | 1016128-041 | BAND, IDENTIFICATION | | | |
| | 20 | 1 | 1900993-005 | ZIPPER TUBING MD1002155, TYPE 1, PLASTIC, FLEXIBLE 1.00 DIA. 16 FT. TOTAL LENGTH. | | | |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732) | | | |
| 20 | 22 | | | CONNECTOR CONTACTS, PIN | | | |
| 21 | 23 | | | 1897147-106, 108, 112, CABLE CLAMP SLEEVE | | | |
| 10 | 24 | 1 | 1016282-024 | RUBBER GROMMET | | | |
| 10 | 25 | 1 | 1015902-046 | TERMINAL LUG | | | |
| | 26 | 1 | 1900903-006 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016175-006 6 INCH TOTAL LENGTH | | | |

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|--|---------|---------------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900993 |
| SCALE - NONE | REV LTR | D | SHEET 6 OF 1 |

| GIW | | CABLE W-48 | | + | | 1900993 | |
|-------------------|------|----------------------|---|----------------------|-------------|---------|---------------|
| CONDUCTOR | | FROM | | TO | | | |
| INDIVIDUAL LENGTH | ITEM | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | | |
| A 1 | 4 | P1-A* | 22N | P2- 30 | 22N | 16 | |
| A 2 | 2 | | 230 200 12 11 5 | | 230 200 | A 15 | 7A |
| | | | A 14 | | | | |
| A 2A | 4 | SHLD A2 | 37N | E1 | 37N | | |
| A 2W | | P1-B* | 22N | P2- 12 | 22N | 16 | |
| A 3 | 1 | | 230 200 8 7 5 | | 230 200 | A 14 | 7A |
| | | | A 14 | | | | |
| A 3A | 4 | SHLD A3 | 37N | E1 | 37N | | |
| A 3L | | P1-D* | 22N | P2- 14 | 22N | 16 | |
| A 3R | | P1-C* | 22N | P2- 1 | 22N | 16 | |
| A 4 | 4 | P1-DD | 22N | P2- 15 | 22N | 16 | |
| A 5 | 1 | | 230 200 8 7 5 | | 230 200 | A 14 | 7A |
| | | | A 14 | | | | |
| A 5A | 4 | SHLD A5 | 37N | E1 | 37N | | |
| A 5L | | P1-F* | 22N | P2- 57 | 22N | 16 | |
| A 5R | | P1-E* | 22N | P2- 67 | 22N | 16 | |
| A 6 | 1 | | 230 200 8 7 5 | | 230 200 | A 14 | 7A |
| | | | A 14 | | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | A | | 1900993 |
| | | | SCALE-NONE | REV LTR | + | | SHEET 7 OF 13 |

| GIW | | CABLE W-48 | | + | | 1900993 | |
|-------------------|------|----------------------|---|----------------------|-------------|---------|---------------|
| CONDUCTOR | | FROM | | TO | | | |
| INDIVIDUAL LENGTH | ITEM | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | | |
| A 6A | 4 | SHLD A6 | 37N | E1 | 37N | | |
| A 6L | | P1-H* | 22N | P2- 45 | 22N | 16 | |
| A 6R | | P1-G* | 22N | P2- 35 | 22N | 16 | |
| A 7 | 2 | | 280 250 12 11 5 | | 280 250 | A 15 | 7A |
| | | | A 14 | | | | |
| A 7A | 4 | SHLD A7 | 37N | E1 | 37N | | |
| A 7W | | P1-I* | 22N | P2- 34 | 22N | 16 | |
| A 8 | 1 | | 280 250 8 7 5 | | 280 250 | A 14 | 7A |
| | | | A 14 | | | | |
| A 8A | 4 | SHLD A8 | 37N | E1 | 37N | | |
| A 8L | | P1-K* | 22N | P2- 6 | 22N | 16 | |
| A 8R | | P1-J* | 22N | P2- 20 | 22N | 16 | |
| A 9 | 1 | | 280 250 8 7 5 | | 280 250 | A 14 | 7A |
| | | | A 14 | | | | |
| A 9A | 4 | SHLD A9 | 37N | E2 | 37N | | |
| A 9L | | P1-N* | 22N | P2- 7 | 22N | 16 | |
| A 9R | | P1-M* | 22N | P2- 21 | 22N | 16 | |
| A 10 | 1 | | 280 250 8 7 5 | | 280 250 | A 14 | 7A |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | A | | 1900993 |
| | | | SCALE-NONE | REV LTR | + | | SHEET 8 OF 13 |

GIW CABLE W-48 B 1900993

| CONDUCTOR | | | | FROM | | | | TO | | | |
|--------------------|---|----------|-----|----------------------|--------|--------|-----|----------------------|------|----|--|
| INDIVIDUAL LENGTHS | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| ITEM NO. 1 | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT 2 | | | | CIRCUIT POINT 3 | | | | CIRCUIT POINT 3 | | | |
| ITEM NO. 1 | | | | ITEM NO. 1 | | | | ITEM NO. 1 | | | |
| A 10A | 4 | SHLD A10 | 37N | 22N | 22 | P2- 90 | 22N | 14 | | | |
| A 10L | | P1-Q* | 22N | 22 | P2-104 | 22N | 16 | | | | |
| A 10R | | P1-P* | 22N | 22 | | | | | | | |
| A 11 | 1 | | 330 | 300 | 6 7 5 | | 330 | 300 | A 14 | 7A | |
| A 11A | 4 | SHLD A11 | 37N | 22N | 22 | P2- 86 | 22N | 16 | | | |
| A 11L | | P1-S* | 22N | 22 | P2-100 | 22N | 16 | | | | |
| A 11R | | P1-R* | 22N | 22 | | | | | | | |
| A 12 | 1 | | 330 | 300 | 6 7 5 | | 330 | 300 | A 14 | 7A | |
| A 12A | 4 | SHLD A12 | 37N | 22N | 22 | P2- 87 | 22N | 14 | | | |
| A 12L | | P1-U* | 22N | 22 | P2-101 | 22N | 16 | | | | |
| A 12R | | P1-T* | 22N | 22 | | | | | | | |
| A 13 | 3 | | 330 | 300 | 10 5 5 | | 330 | 300 | A 14 | 7A | |
| A 13A | 4 | SHLD A13 | 37N | 22N | 22 | P1-C | 22N | 16 | | | |
| A 13L | | P1-W* | 22N | 22 | P2-108 | 22N | 16 | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900993

SCALE - NONE

REV LTR

B

SHEET

9 OF 1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS

**MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS**

| | |
|------|---|
| SIZE | A |
|------|---|

1900993

| | |
|--------------|---------|
| SCALE - NONE | REV LTR |
|--------------|---------|

SHEET 9 OF 13

GIW CABLE W-48 + 1900993

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|----------------------|----------|---|---|--------------------|-----|-----|------|---------------|---|--------|-----|-----|------|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | | |
| NO. | | | | SPEC. | | | | NO. | | | | | | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| STRIP WIRE OR JACKET | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | | | |
| A 13R | | | | P1-V8 | 22N | 22 | | | | P2-107 | 22N | 16 | | |
| A 13Y | | | | P1-X8 | 22N | 22 | | | | P2- 94 | 22N | 16 | | |
| A 14 | 1 | | | | 380 | 300 | 8 | 7 | 5 | | 380 | 300 | A 14 | 7A |
| | | | | | | | A 14 | | | | | | | |
| A 14A | 4 | | | SHLD A14 | 37N | | | | | E2 | 37N | | | |
| A 14L | | | | P1-Z8 | 22N | 22 | | | | P2- 50 | 22N | 16 | | |
| A 14R | | | | P1-Y8 | 22N | 22 | | | | P2- 60 | 22N | 16 | | |
| A 15 | 1 | | | | 380 | 350 | 8 | 7 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | | | A 14 | | | | | | | |
| A 15A | 4 | | | SHLD A15 | 37N | | | | | E3 | 37N | | | |
| A 15L | | | | P1-CC | 22N | 22 | | | | P2- 2 | 22N | 16 | | |
| A 15R | | | | P1-BB | 22N | 22 | | | | P2- 3 | 22N | 16 | | |
| A 16 | 4 | | | P1-AA | 22N | 22 | | | | P2- 16 | 22N | 16 | | |
| A 17 | 3 | | | | 380 | 350 | 10 | 9 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | | | A 14 | | | | | | | |
| A 17A | 4 | | | SHLD A17 | 37N | | | | | E3 | 37N | | | |
| A 17L | | | | P1-FF | 22N | 22 | | | | P2-105 | 22N | 16 | | |
| A 17R | | | | P1-EE | 22N | 22 | | | | P2- 92 | 22N | 16 | | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900993

SCALE- NONE

REV LTR +

SHEET 10 OF

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS

**MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS**

| | |
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| SI: | |
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| SCALE - NONE | REV LTR |
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SHEET 10 OF 11

GIW CABLE W-48 D 1900993

| CONDUCTOR | | | | FROM | | | | TO | | | | |
|-------------------|-----|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | |
| ITEM | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. | |
| NUMBER | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | |
| A 17Y | | P1-GG | 22N | 22 | | P2-106 | 22N | 16 | | | | |
| A 18 | 3 | | 380 | 350 | 10 | 9 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | A 14 | | | | | | | |
| A 18A | 4 | SHLD A18 | 37N | | | E3 | 37N | | | | | |
| A 18L | | P1-JJ | 22N | 22 | | P2- 31 | 22N | 16 | | | | |
| A 18N | | P1-MM | 22N | 22 | | P2- 32 | 22N | 16 | | | | |
| A 18Y | | P1-KK | 22N | 22 | | P2- 43 | 22N | 16 | | | | |
| A 19 | 1 | | 380 | 350 | 6 | 7 | 5 | | 380 | 350 | A 14 | 7A |
| | | | | | A 14 | | | | | | | |
| A 19A | 4 | SHLD A19 | 37N | | | E3 | 37N | | | | | |
| A 19L | | P1-MM | 22N | 22 | | P2- 29 | 22N | 16 | | | | |
| A 19N | | P1-LL | 22N | 22 | | P2- 28 | 22N | 16 | | | | |
| A 20 | 4 | P3- 1 | 25N | 25 | | P2- 41 | 22N | 16 | | | | |
| A 21 | 2 | | 430 | 400 | 12 | 11 | | 430 | 400 | A 15 | 7A | |
| | | | | | A 14 | | | | | | | |
| A 21A | 4 | SHLD A21 | 37N | | | E3 | 37N | | | | | |
| A 21W | | P1-NN | 22N | 22 | | P2- 11 | 22N | 16 | | | | |
| A 22 | 2 | | 430 | 400 | 12 | 11 | | 430 | 400 | A 15 | 7A | |

▶ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▶ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANDED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

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SHEET 11 OF

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS

**MANNED
SPACECRAFT
CENTER
HOUSTON, TEX.**

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SHEET 11 OF 1

GIW CABLE W-48 + 190099

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1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMAL

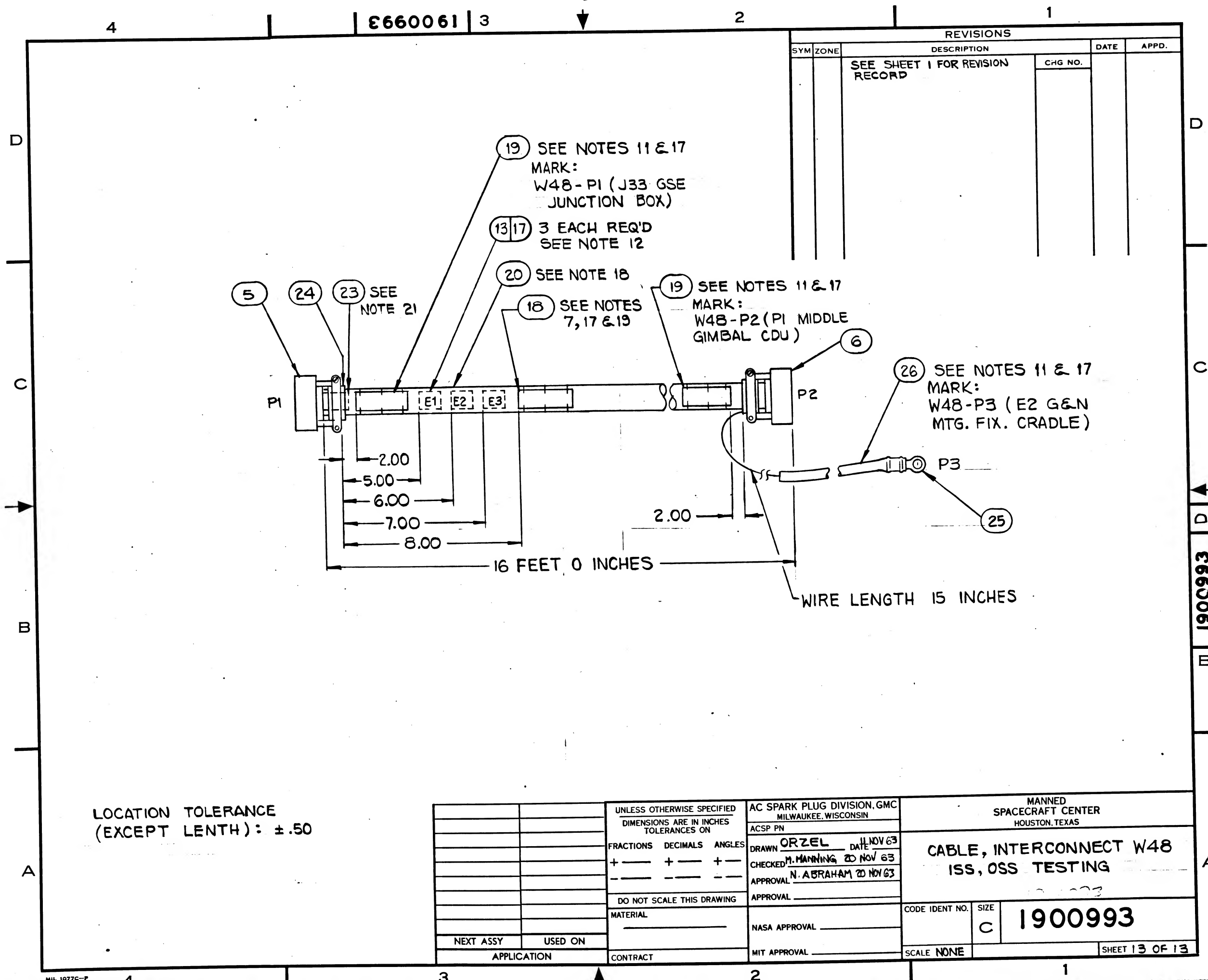
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HOUSTON, TEX.**

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| SCALE - NONE | REV LT |
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SHEET 12 OF



| REVISIONS | | | | |
|-----------|------|---------------------------------|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| | | SEE SHEET 1 FOR REVISION RECORD | | |

LOCATION TOLERANCE
(EXCEPT LENGTH): ±.50

| | | | | | | |
|-------------------|--|---|---|--|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | ACSP PN | | CABLE, INTERCONNECT W48 | |
| | | + - - - + - - - + - - - | DRAWN ORZEL DATE 11 NOV 63 | | ISS, OSS TESTING | |
| | | - - - - - - - - - - | CHECKED M. MANNING 20 NOV 63 | | | |
| | | DO NOT SCALE THIS DRAWING | APPROVAL N. ABRAHAM 20 NOV 63 | | | |
| | | MATERIAL | APPROVAL | | CODE IDENT NO. SIZE | |
| | | | NASA APPROVAL | | C 1900993 | |
| NEXT ASSY USED ON | | CONTRACT | MIT APPROVAL | | SCALE NONE SHEET 13 OF 13 | |
| APPLICATION | | | | | | |

| PENNANT | | GENERAL NOTES | |
|---------|---|---------------|--|
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR A | SHEET 2 OF 13 |

| PENNANT | | GENERAL NOTES | |
|---------|--|---------------|--|
| NOTE | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES | | |
| 17 | SECURE TO CABLE USING ITEM 21, MARKING TO READ AWAY FROM CONNECTOR | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153. | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | THIS ITEM FURNISHED WITH ITEM 5 | | |
| 21 | ITEM 23 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 23 AS REQUIRED TO FIT. | | |
| 22 | SEE NOTES 10 AND 16 | | |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR A | SHEET 3 OF 13 |

| APPLICATION | | REVISIONS | | DATE | |
|--------------|-------------|-----------|---|-----------|--------------------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 190137083 51 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM-193773 | 17 FEB 64 | <i>[Signature]</i> |
| | | B | CHANGE IN ACCORDANCE WITH CM 195644 TDR 0901 | 24 MAR 64 | <i>[Signature]</i> |
| | | C | CHANGE IN ACCORDANCE WITH CM-196134 TDR 09102 | 14 APR 64 | <i>[Signature]</i> |
| | | D | CHANGE IN ACCORDANCE WITH CM 197542 TDR 10688 | 27 MAY 64 | <i>[Signature]</i> |
| | | E | CHANGE IN ACCORDANCE WITH CM 199020 TDR 12271 | 30 JUL 64 | <i>[Signature]</i> |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 01663 DATE 1/7/64

| | | | |
|-----|-------|-----|-------|
| REV | SHEET | REV | SHEET |
| 1 | 1 | 1 | 1 |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN *[Signature]* 11 NOV 63

DRAWN *[Signature]* 11 NOV 63

CHECKED *[Signature]* 11 NOV 63

APPROVAL *[Signature]* 11 NOV 63

APPROVAL *[Signature]* 11 NOV 63

NASA APPROVAL *[Signature]* 11 NOV 63

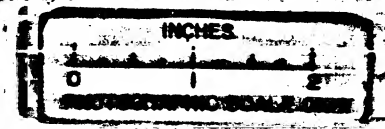
MIT APPROVAL *[Signature]* 11 NOV 63

CONTRACT NAS 9-497

SCALE 1 OF 13

| PENNANT | | GENERAL NOTES | |
|--|---------------|---------------|--------------|
| NOTE | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED — | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET |
| | WIRE | WIRE | CUT SHIELD |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR A | SHEET 4 OF 13 |



GIW CABLE W-48 D 1900993

| LIST OF MATERIALS | | | | |
|-------------------|------|----------|-------------|--|
| PENMANT | NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | 10 | 17 3 | 1016006-002 | SPLICE REDUCER |
| | 10 | 18 1 | 1016128-011 | BAND, IDENTIFICATION |
| | 10 | 19 2 | 1016128-041 | BAND, IDENTIFICATION |
| | | 20 1 | 1900993-005 | ZIPPER TUBING MD1002155, TYPE 1, PLASTIC, FLEXIBLE 1.00 DIA. 16 FT. TOTAL LENGTH. |
| | | 21 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES-2732) |
| | 20 | 22 | | CONNECTOR CONTACTS, PIN |
| | 21 | 23 | | 1897147-106, 108, 112, CABLE CLAMP SLEEVE |
| | 10 | 24 1 | 1016282-024 | RUBBER GROMMET |
| | 10 | 25 1 | 1015902-046 | TERMINAL LUG |
| | | 26 1 | 1900903-006 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016175-006 6 INCH TOTAL LENGTH |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR | D |
| SHEET 6 OF 13 | | |

MIL 2084 4-63

GIW CABLE W-48 + 1900993

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|---------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 4 | P1-A* | 22N | 22 | | P2- 30 | 22N | 16 | |
| A 2 | 2 | | 230 | 200 | 12 11 5 | | 230 | 200 | A 15 7A |
| | | | | A 14 | | | | | |
| A 2A | 4 | SHLD A2 | 37N | | | E1 | 37N | | |
| A 2W | | P1-B* | 22N | 22 | | P2- 12 | 22N | 16 | |
| A 3 | 1 | | 230 | 200 | 8 7 5 | | 230 | 200 | A 14 7A |
| | | | | A 14 | | | | | |
| A 3A | 4 | SHLD A3 | 37N | | | E1 | 37N | | |
| A 3L | | P1-D* | 22N | 22 | | P2- 14 | 22N | 16 | |
| A 3R | | P1-C* | 22N | 22 | | P2- 1 | 22N | 16 | |
| A 4 | 4 | P1-DD | 22N | 22 | | P2- 15 | 22N | 16 | |
| A 5 | 1 | | 230 | 200 | 8 7 5 | | 230 | 200 | A 14 7A |
| | | | | A 14 | | | | | |
| A 5A | 4 | SHLD A5 | 37N | | | E1 | 37N | | |
| A 5L | | P1-F* | 22N | 22 | | P2- 57 | 22N | 16 | |
| A 5R | | P1-E* | 22N | 22 | | P2- 67 | 22N | 16 | |
| A 6 | 1 | | 230 | 200 | 8 7 5 | | 230 | 200 | A 14 7A |
| | | | | A 14 | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR | + |
| SHEET 7 OF 13 | | |

MIL 2085 4-63 WIR

GIW CABLE W-48 A 1900993

| LIST OF MATERIALS | | | | |
|-------------------|------|----------|------------------------------|--|
| PENMANT | NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | | 1 1 | 1900993-001 | WIRE MD1002181 TYPE 2 CLASS 4 WHT JAKT 22AWG WHT/BLU, WHT/RED - 176 FT. TOTAL LENGTH. |
| | | 2 1 | 1900993-002 | WIRE MD1002181 TYPE 1 CLASS 4 WHT JAKT 22AWG WHT, 64 FT. TOTAL LENGTH |
| | | 3 1 | 1900993-003 | WIRE MD1002181 TYPE 3, CLASS 4 WHT JAKT 22AWG WHT/RED, WHT/BLU, WHT/YEL 48 FT. TOTAL LENGTH. |
| | | 4 1 | 1900993-004 | WIRE MD1002181 TYPE 1, CLASS 1, 22AWG, WHT 75 FT. TOTAL LENGTH. |
| | 16 | 5 1 | MS3126F-24-61P (1897047-610) | CONNECTOR-PLUG |
| | 22 | 6 1 | 1010411-002 | CONNECTOR |
| | 10 | 7 11 | 1000243-008 | FERRULE, ELEC. COND |
| | 10 | 8 11 | 1000242-007 | FERRULE, ELEC. COND |
| | 10 | 9 3 | 1000243-011 | FERRULE, ELEC. COND |
| | 10 | 10 3 | 1000242-011 | FERRULE, ELEC. COND |
| | 10 | 11 4 | 1000243-003 | FERRULE, ELEC. COND |
| | 10 | 12 4 | 1000242-002 | FERRULE, ELEC. COND |
| | 10 | 13 3 | 1010490-250 | INSULATION, SLEEVING, ELECT. |
| | 10 | 14 32 | 1010490-198 | INSULATION, SLEEVING, ELECT. |
| | 10 | 15 4 | 1010490-200 | INSULATION, SLEEVING, ELECT. |
| | 10 | 16 108 | 1010464-002 | CONNECTOR, CONTACTS, SOCKET |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR | A |
| SHEET 5 OF 13 | | |

MIL 2084 4-63

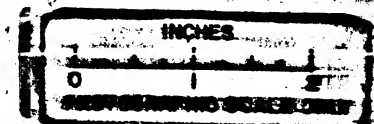
GIW CABLE W-48 + 1900993

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|---------------|-------------------|---------|----------------------|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 6A | 4 | SHLD A6 | 37N | | | E1 | 37N | | |
| A 6L | | P1-H* | 22N | 22 | | P2- 45 | 22N | 16 | |
| A 6R | | P1-G* | 22N | 22 | | P2- 35 | 22N | 16 | |
| A 7 | 2 | | 280 | 250 | 12 11 5 | | 280 | 250 | A 15 7A |
| | | | | A 14 | | | | | |
| A 7A | 4 | SHLD A7 | 37N | | | E1 | 37N | | |
| A 7W | | P1-I* | 22N | 22 | | P2- 34 | 22N | 16 | |
| A 8 | 1 | | 280 | 250 | 8 7 5 | | 280 | 250 | A 14 7A |
| | | | | A 14 | | | | | |
| A 8A | 4 | SHLD A8 | 37N | | | E1 | 37 | | |
| A 8L | | P1-K* | 22N | 22 | | P2- 6 | 22N | 16 | |
| A 8R | | P1-J* | 22N | 22 | | P2- 20 | 22N | 16 | |
| A 9 | 1 | | 280 | 250 | 8 7 5 | | 280 | 250 | A 14 7A |
| | | | | A 14 | | | | | |
| A 9A | 4 | SHLD A9 | 37N | | | E2 | 37N | | |
| A 9L | | P1-N* | 22N | 22 | | P2- 7 | 22N | 16 | |
| A 9R | | P1-M* | 22N | 22 | | P2- 21 | 22N | 16 | |
| A 10 | 1 | | 280 | 250 | 8 7 5 | | 280 | 250 | A 14 7A |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR | + |
| SHEET 8 OF 13 | | |

MIL 2085 4-63 WIR



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CABLE W-48

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| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
|-------------------|----------|----------------------|---------------|-----|----|----------|----------------------|---------------|---|-----|----------|------|----------------------|---------------|---|---|----------|-------------------|--|--|--|--|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | T | N | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | T | N | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | T | N | ITEM NO. | | | | | | |
| A 13R | | P1-V* | 22N | | 22 | | P2-107 | 22N | | 16 | | | | | | | | | | | | | |
| A 13Y | | P1-X* | 22N | | 22 | | P2- 94 | 22N | | 16 | | | | | | | | | | | | | |
| A 14 | 1 | | 380 | 300 | 8 | 7 | 5 | | | 380 | 300 | A 14 | 7A | | | | | | | | | | |
| | | | | | | A 14 | | | | | | | | | | | | | | | | | |
| A 14A | 4 | SHLD A14 | 37N | | | | E2 | 37N | | | | | | | | | | | | | | | |
| A 14L | | P1-Z* | 22N | | 22 | | P2- 50 | 22N | | 16 | | | | | | | | | | | | | |
| A 14R | | P1-Y* | 22N | | 22 | | P2- 60 | 22N | | 16 | | | | | | | | | | | | | |
| A 15 | 1 | | 380 | 350 | 8 | 7 | 5 | | | 380 | 350 | A 14 | 7A | | | | | | | | | | |
| | | | | | | A 14 | | | | | | | | | | | | | | | | | |
| A 15A | 4 | SHLD A15 | 37N | | | | E3 | 37N | | | | | | | | | | | | | | | |
| A 15L | | P1-CC | 22N | | 22 | | P2- 2 | 22N | | 16 | | | | | | | | | | | | | |
| A 15R | | P1-BB | 22N | | 22 | | P2- 3 | 22N | | 16 | | | | | | | | | | | | | |
| A 16 | 4 | P1-AA | 22N | | 22 | | P2- 16 | 22N | | 16 | | | | | | | | | | | | | |
| A 17 | 3 | | 380 | 350 | 10 | 9 | 5 | | | 380 | 350 | A 14 | 7A | | | | | | | | | | |
| | | | | | | A 14 | | | | | | | | | | | | | | | | | |
| A 17A | 4 | SHLD A17 | 37N | | | | E3 | 37N | | | | | | | | | | | | | | | |
| A 17L | | P1-FF | 22N | | 22 | | P2-105 | 22N | | 16 | | | | | | | | | | | | | |
| A 17R | | P1-EE | 22N | | 22 | | P2- 92 | 22N | | 16 | | | | | | | | | | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

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SHEET 10 OF 13

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CABLE W-48

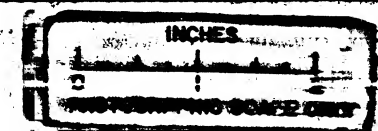
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| CONDUCTOR | | FROM | | | | | | TO | | | | | | | |
|---|----------|----------------------|---------------|-------------------|--------|--|----------------------|---------------|-------------------|----------------|-----|--|--|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | | | | | | |
| A 17Y | | P1-GG | 22N | 22 | | | P2-106 | 22N | 16 | | | | | | |
| A 18 | 3 | | 380 | 350 | 10 9 5 | | | 380 | 350 | A 14 | 7A | | | | |
| | | | | | A 14 | | | | | | | | | | |
| A 18A | 4 | SHLD A18 | 37N | | | | E3 | 37N | | | | | | | |
| A 18L | | P1-JJ | 22N | 22 | | | P2- 31 | 22N | 16 | | | | | | |
| A 18M | | P1-MM | 22N | 22 | | | P2- 32 | 22N | 16 | | | | | | |
| A 18Y | | P1-KK | 22N | 22 | | | P2- 43 | 22N | 16 | | | | | | |
| A 19 | 1 | | 380 | 350 | 8 7 5 | | | 380 | 350 | A 14 | 7A | | | | |
| | | | | | A 14 | | | | | | | | | | |
| A 19A | 4 | SHLD A19 | 37N | | | | E3 | 37N | | | | | | | |
| A 19L | | P1-MM | 22N | 22 | | | P2- 29 | 22N | 16 | | | | | | |
| A 19M | | P1-LL | 22N | 22 | | | P2- 28 | 22N | 16 | | | | | | |
| A 20 | 4 | P3- 1 | 25N | 25 | | | P2- 41 | 22N | 16 | | | | | | |
| A 21 | 2 | | 430 | 400 | 12 11 | | | 430 | 400 | A 14 | 7A | | | | |
| | | | | | A 14 | | | | | | | | | | |
| A 21A | 4 | SHLD A21 | 37N | | | | E3 | 37N | | | | | | | |
| A 21M | | P1-MM | 22N | 22 | | | P2- 11 | 22N | 16 | | | | | | |
| A 22 | 2 | | 430 | 400 | 12 11 | | | 430 | 400 | A 14 | 7A | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900993 | | | | | |
| | | | | | | SCALE-NONE | | REV LTR D | | SHEET 11 OF 13 | | | | | |

| GIW | | CABLE W-48 | | | | | | | | | | B | | 1900993 | |
|--|----------|------------|----------------------|---------------|-------|-------------------|----------------------|--|--------------------|-----------|-----|-------------------|------|---------------|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | |
| NUMBER | ITEM NO. | | STRIP WIRE OR JACKET | CIRCUIT POINT | T I N | | STRIP WIRE OR JACKET | | CIRCUIT POINT | T I N | | ITEM NO. | | | |
| | | | | | | | A 14 | | | | | | | | |
| A 10A | 4 | | SHLD A10 | | 37N | | | | E2 | | 37N | | | | |
| A 10L | | | P1-Q* | | 22N | 22 | | | P2- 90 | | 22N | 16 | | | |
| A 10R | | | P1-P* | | 22N | 22 | | | P2-104 | | 22N | 16 | | | |
| A 11 | 1 | | | | 330 | 300 | 8 7 5 | | | | 330 | 300 | A 14 | 7A | |
| | | | | | | | A 14 | | | | | | | | |
| A 11A | 4 | | SHLD A11 | | 37N | | | | E2 | | 37N | | | | |
| A 11L | | | P1-S* | | 22N | 22 | | | P2- 86 | | 22N | 16 | | | |
| A 11R | | | P1-R* | | 22N | 22 | | | P2-100 | | 22N | 16 | | | |
| A 12 | 1 | | | | 330 | 300 | 8 7 5 | | | | 330 | 300 | A 14 | 7A | |
| | | | | | | | A 14 | | | | | | | | |
| A 12A | 4 | | SHLD A12 | | 37N | | | | E2 | | 37N | | | | |
| A 12L | | | P1-U* | | 22N | 22 | | | P2- 87 | | 22N | 16 | | | |
| A 12R | | | P1-T* | | 22N | 22 | | | P2-101 | | 22N | 16 | | | |
| A 13 | 3 | | | | 330 | 300 | 10 9 5 | | | | 330 | 300 | A 14 | 7A | |
| | | | | | | | A 14 | | | | | | | | |
| A 13A | 4 | | SHLD A13 | | 37N | | | | P1-C | | 22N | 22 | | | |
| A 13L | | | P1-W* | | 22N | 22 | | | P2-108 | | 22N | 16 | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900993 | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | SCALE-NONE | | REV LTR | | X E | | SHEET 9 OF 13 | |

| GIW | | | | CABLE W-48 | | | | | | | | | | + | | 1900993 | | | | | | | | | |
|-------------------|--|----------|--|----------------------|--|-----|--|----|-------------------|---|--|----------|--|---------------|----------------------|---------|--|----|--|-------------------|--|----------|--|--|-----|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. |
| | | | | STRIP WIRE OR JACKET | | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | |
| NUMBER | | ITEM NO. | | CIRCUIT POINT | | T | | I | | N | | ITEM NO. | | CIRCUIT POINT | | T | | I | | N | | ITEM NO. | | | |
| | | | | | | | | | | | | A 14 | | | | | | | | | | | | | |
| A 22A | | 4 | | SHLD A22 | | 37N | | | | | | | | E3 | | 37N | | | | | | | | | |
| A 22W | | | | P1-PP | | 22N | | 22 | | | | | | P2- 25 | | 22N | | 16 | | | | | | | |
| A 23 | | 4 | | P1-B | | 22N | | 22 | | | | | | E1 | | 37N | | | | | | | | | |
| A 24 | | 4 | | E1 | | 37N | | | | | | | | E2 | | 37N | | | | | | | | | |
| A 25 | | 4 | | E2 | | 37N | | | | | | | | E3 | | 37N | | | | | | | | | |
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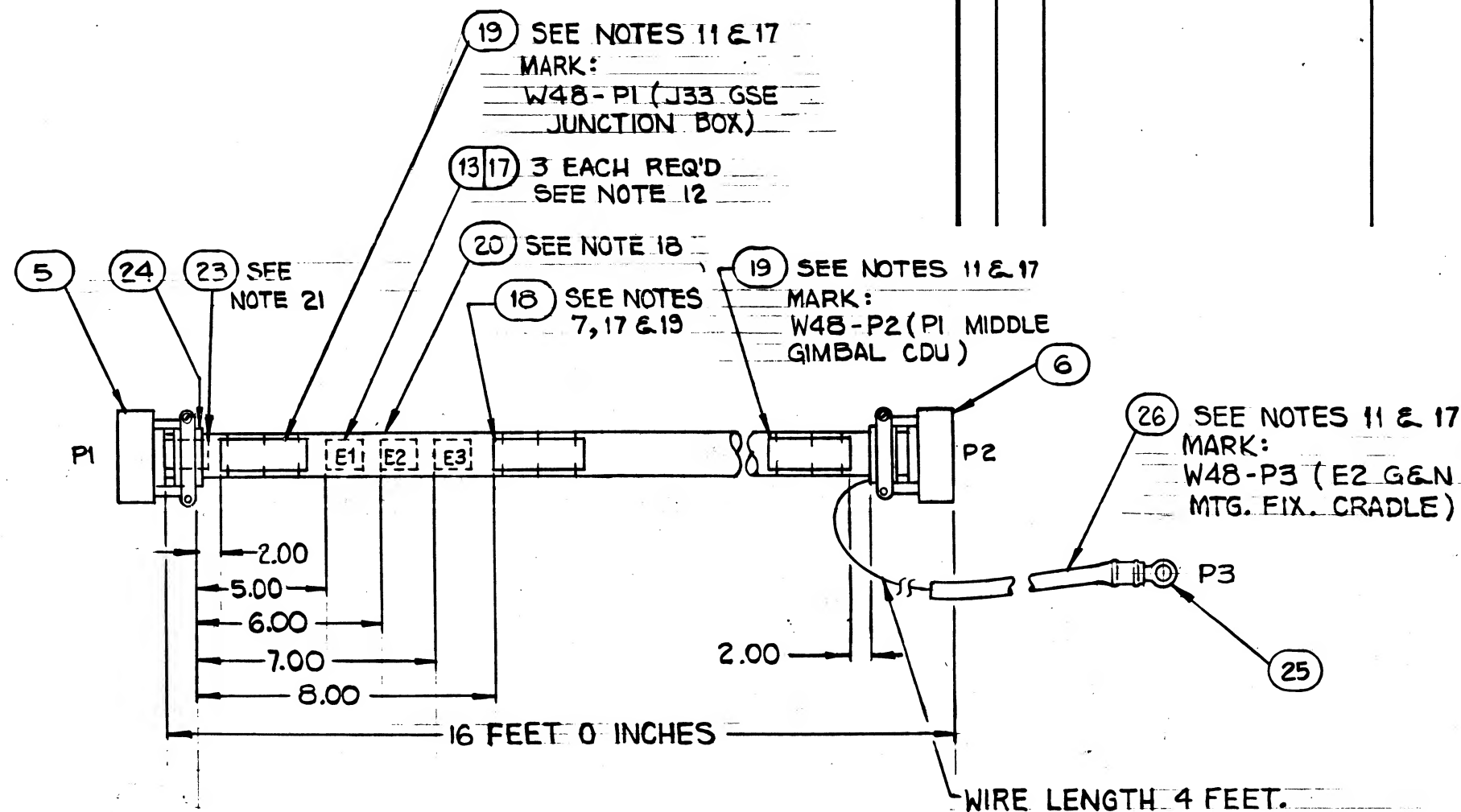
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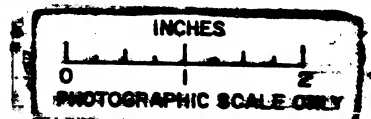
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LOCATION TOLERANCE
(EXCEPT LENGTH): $\pm .50$

| | | | | | | | |
|-------------------|--|---|--|---|--|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | DRAWN ORZEL 11 NOV 63 | | CABLE, INTERCONNECT W48 | |
| | | + - - - - + - - - - + - - - - | | CHECKED M. MANNING 20 NOV 63 | | ISS, OSS TESTING | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL N. ABRAHAM 20 NOV 63 | | 1900993 | |
| | | MATERIAL | | NASA APPROVAL [Signature] 9/15/64 | | CODE IDENT NO. SIZE | |
| NEXT ASSY USED ON | | | | MIT APPROVAL [Signature] 9/15/64 | | C 1900993 | |
| APPLICATION | | CONTRACT | | SCALE NONE | | SHEET 13 OF 13 | |



| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|-------------|--|
| 10 | 17 | 3 | 1016006-002 | SPLICE REDUCER |
| 10 | 18 | 1 | 1016128-011 | BAND, IDENTIFICATION |
| 10 | 19 | 2 | 1016128-041 | BAND, IDENTIFICATION |
| | 20 | 1 | 1900993-005 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 5/8 DIA. 16 FT TOTAL LENGTH. |
| | 21 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2 BLACK (ES 2732) |
| 20 | 22 | - | - | CONNECTOR CONTACTS, PIN |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR + | SHEET 6 OF 13 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|-------------|----------------------|-------------------|-------------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 1 | 4 | P1-A* | 22N | 22 | P2- 30 | 22N | 16 | | |
| A 2 | 2 | | 230 | 200 12 11 5 | | 230 | 200 A 15 7A | | |
| | | | | A 14 | | | | | |
| A 2A | 4 | SHLD A2 | 37N | | E1 | 37N | | | |
| A 2W | | P1-B* | 22N | 22 | P2- 12 | 22N | 16 | | |
| A 3 | 1 | | 230 | 200 8 7 5 | | 230 | 200 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 3A | 4 | SHLD A3 | 37N | | E1 | 37N | | | |
| A 3L | | P1-D* | 22N | 22 | P2- 14 | 22N | 16 | | |
| A 3R | | P1-C* | 22N | 22 | P2- 1 | 22N | 16 | | |
| A 4 | 4 | P1-DD | 22N | 22 | P2- 15 | 22N | 16 | | |
| A 5 | 1 | | 230 | 200 8 7 5 | | 230 | 200 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 5A | 4 | SHLD A5 | 37N | | E1 | 37N | | | |
| A 5L | | P1-F* | 22N | 22 | P2- 57 | 22N | 16 | | |
| A 5R | | P1-E* | 22N | 22 | P2- 67 | 22N | 16 | | |
| A 6 | 1 | | 230 | 200 8 7 5 | | 230 | 200 A 14 7A | | |
| | | | | A 14 | | | | | |

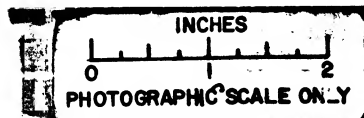
| | | | |
|--|---|-----------|---------------|
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | SCALE-NONE | REV LTR + | SHEET 7 OF 13 |

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|----------|------|-------|----------------|---|
| | 1 | 1 | 1900993-001 | WIRE ND 1002181 TYPE 2 CLASS 4 WHT JAKT 22 AWG WHT/BLU, WHT/RED - 176 FT. TOTAL LENGTH. |
| | 2 | 1 | -002 | WIRE ND 1002181 TYPE 1 CLASS 4 WHT JAKT 22 AWG WHT, 64 FT TOTAL LENGTH |
| | 3 | 1 | -003 | WIRE ND 1002181 TYPE 3, CLASS 4 WHT JAKT 22 AWG WHT/RED, WHT/BLU, WHT/YEL 48 FT TOTAL LENGTH. |
| | 4 | 1 | -004 | WIRE ND 1002181 TYPE 1, CLASS 1, 22 AWG, WHT 75 FT TOTAL LENGTH. |
| 16 | 5 | 1 | MS3126F-24-61P | (1897047-610) CONNECTOR - PLUG |
| 16,10 | 6 | 1 | 1010411-2 | CONNECTOR |
| 10 | 7 | 11 | 1000243-008 | FERRULE, ELEC. COND |
| 10 | 8 | 11 | 1000242-007 | FERRULE, ELEC. COND |
| 10 | 9 | 3 | 1000243-011 | FERRULE, ELEC. COND |
| 10 | 10 | 3 | 1000242-011 | FERRULE, ELEC. COND |
| 10 | 11 | 4 | 1000243-003 | FERRULE, ELEC. COND |
| 10 | 12 | 4 | 1000242-002 | FERRULE, ELEC. COND |
| 10 | 13 | 3 | 1010490-250 | INSULATION, SLEEVING, ELECT |
| 10 | 14 | 32 | 1010490-198 | INSULATION, SLEEVING, ELECT |
| 10 | 15 | 4 | 1010490-200 | INSULATION, SLEEVING, ELECT |
| 10 | 16 | 108 | 1010464-2 | CONNECTOR, CONTACTS, SOCKET |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| SCALE-NONE | REV LTR + | SHEET 5 OF 13 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|-------------|----------------------|-------------------|-------------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 6A | 4 | SHLD A6 | 37N | | E1 | 37N | | | |
| A 6L | | P1-H* | 22N | 22 | P2- 45 | 22N | 16 | | |
| A 6R | | P1-G* | 22N | 22 | P2- 35 | 22N | 16 | | |
| A 7 | 2 | | 280 | 250 12 11 5 | | 280 | 250 A 15 7A | | |
| | | | | A 14 | | | | | |
| A 7A | 4 | SHLD A7 | 37N | | E1 | 37N | | | |
| A 7W | | P1-I* | 22N | 22 | P2- 34 | 22N | 16 | | |
| A 8 | 1 | | 280 | 250 8 7 5 | | 280 | 250 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 8A | 4 | SHLD A8 | 37N | | E1 | 37N | | | |
| A 8L | | P1-K* | 22N | 22 | P2- 6 | 22N | 16 | | |
| A 8R | | P1-J* | 22N | 22 | P2- 20 | 22N | 16 | | |
| A 9 | 1 | | 280 | 250 8 7 5 | | 280 | 250 A 14 7A | | |
| | | | | A 14 | | | | | |
| A 9A | 4 | SHLD A9 | 37N | | E2 | 37N | | | |
| A 9L | | P1-N* | 22N | 22 | P2- 7 | 22N | 16 | | |
| A 9R | | P1-M* | 22N | 22 | P2- 21 | 22N | 16 | | |
| A 10 | 1 | | 280 | 250 8 7 5 | | 280 | 250 A 14 7A | | |
| | | | | A 14 | | | | | |

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|--|---|-----------|---------------|
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | SCALE-NONE | REV LTR + | SHEET 8 OF 13 |



GIW

CABLE W-48

1900993

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|--------|--|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13R | | P1-V* | 22N | 22 | | P2-107 | 22N | 16 | |
| A 13Y | | P1-X* | 22N | 22 | | P2- 94 | 22N | 16 | |
| A 14 | 1 | | 330 | 300 | 8 7 5 | | 330 | 300 | A 14 7A |
| | | | | | A 14 | | | | |
| A 14A | 4 | SHLD A14 | 37N | | | E2 | 37N | | |
| A 14L | | P1-Z* | 22N | 22 | | P2- 50 | 22N | 16 | |
| A 14R | | P1-Y* | 22N | 22 | | P2- 60 | 22N | 16 | |
| A 15 | 1 | | 380 | 350 | 8 7 5 | | 380 | 350 | A 14 7A |
| | | | | | A 14 | | | | |
| A 15A | 4 | SHLD A15 | 37N | | | E3 | 37N | | |
| A 15L | | P1-CC | 22N | 22 | | P2- 2 | 22N | 16 | |
| A 15R | | P1-BB | 22N | 22 | | P2- 3 | 22N | 16 | |
| A 16 | 4 | P1-AA | 22N | 22 | | P2- 16 | 22N | 16 | |
| A 17 | 3 | | 380 | 350 | 10 9 5 | | 380 | 350 | A 14 7A |
| | | | | | A 14 | | | | |
| A 17A | 4 | SHLD A17 | 37N | | | E3 | 37N | | |
| A 17L | | P1-FF | 22N | 22 | | P2-105 | 22N | 16 | |
| A 17R | | P1-EE | 22N | 22 | | P2- 92 | 22N | 16 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 10 OF 13 | |

GIW

CABLE W-48

1900993

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|--------|--|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| | | | | | A 14 | | | | |
| A 10A | 4 | SHLD A10 | 37N | | | E2 | 37N | | |
| A 10L | | P1-Q* | 22N | 22 | | P2- 90 | 22N | 16 | |
| A 10R | | P1-P* | 22N | 22 | | P2-104 | 22N | 16 | |
| A 11 | 1 | | 330 | 300 | 8 7 5 | | 330 | 300 | A 14 7A |
| | | | | | A 14 | | | | |
| A 11A | 4 | SHLD A11 | 37N | | | E2 | 37N | | |
| A 11L | | P1-S* | 22N | 22 | | P2- 86 | 22N | 16 | |
| A 11R | | P1-R* | 22N | 22 | | P2-100 | 22N | 16 | |
| A 12 | 1 | | 330 | 300 | 8 7 5 | | 330 | 300 | A 14 7A |
| | | | | | A 14 | | | | |
| A 12A | 4 | SHLD A12 | 37N | | | E2 | 37N | | |
| A 12L | | P1-U* | 22N | 22 | | P2- 87 | 22N | 16 | |
| A 12R | | P1-T* | 22N | 22 | | P2-101 | 22N | 16 | |
| A 13 | 3 | | 330 | 300 | 10 9 5 | | 330 | 300 | A 14 7A |
| | | | | | A 14 | | | | |
| A 13A | 4 | SHLD A13 | 37N | | | E2 | 37N | | |
| A 13L | | P1-W* | 22N | 22 | | P2-108 | 22N | 16 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 9 OF 13 | |

GIW

CABLE W-48

1900993

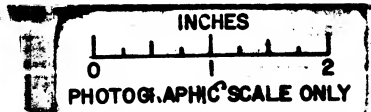
| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|--------|--|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 17Y | | P1-GG | 22N | 22 | | P2-106 | 22N | 16 | |
| A 18 | 3 | | 380 | 350 | 10 9 5 | | 380 | 350 | A 14 7A |
| | | | | | A 14 | | | | |
| A 18A | 4 | SHLD A18 | 37N | | | E3 | 37N | | |
| A 18L | | P1-JJ | 22N | 22 | | P2- 31 | 22N | 16 | |
| A 18R | | P1-HH | 22N | 22 | | P2- 32 | 22N | 16 | |
| A 18Y | | P1-KK | 22N | 22 | | P2- 43 | 22N | 16 | |
| A 19 | 1 | | 380 | 350 | 8 7 5 | | 380 | 350 | A 14 7A |
| | | | | | A 14 | | | | |
| A 19A | 4 | SHLD A19 | 37N | | | E3 | 37N | | |
| A 19L | | P1-MM | 22N | 22 | | P2- 29 | 22N | 16 | |
| A 19R | | P1-LL | 22N | 22 | | P2- 28 | 22N | 16 | |
| A 20 | 4 | P1-A | 22N | 22 | | P2- 41 | 22N | 16 | |
| A 21 | 2 | | 430 | 400 | 12 11 | | 430 | 400 | A 15 7A |
| | | | | | A 14 | | | | |
| A 21A | 4 | SHLD A21 | 37N | | | E3 | 37N | | |
| A 21W | | P1-NN | 22N | 22 | | P2- 11 | 22N | 16 | |
| A 22 | 2 | | 430 | 400 | 12 11 | | 430 | 400 | A 15 7A |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 11 OF 13 | |

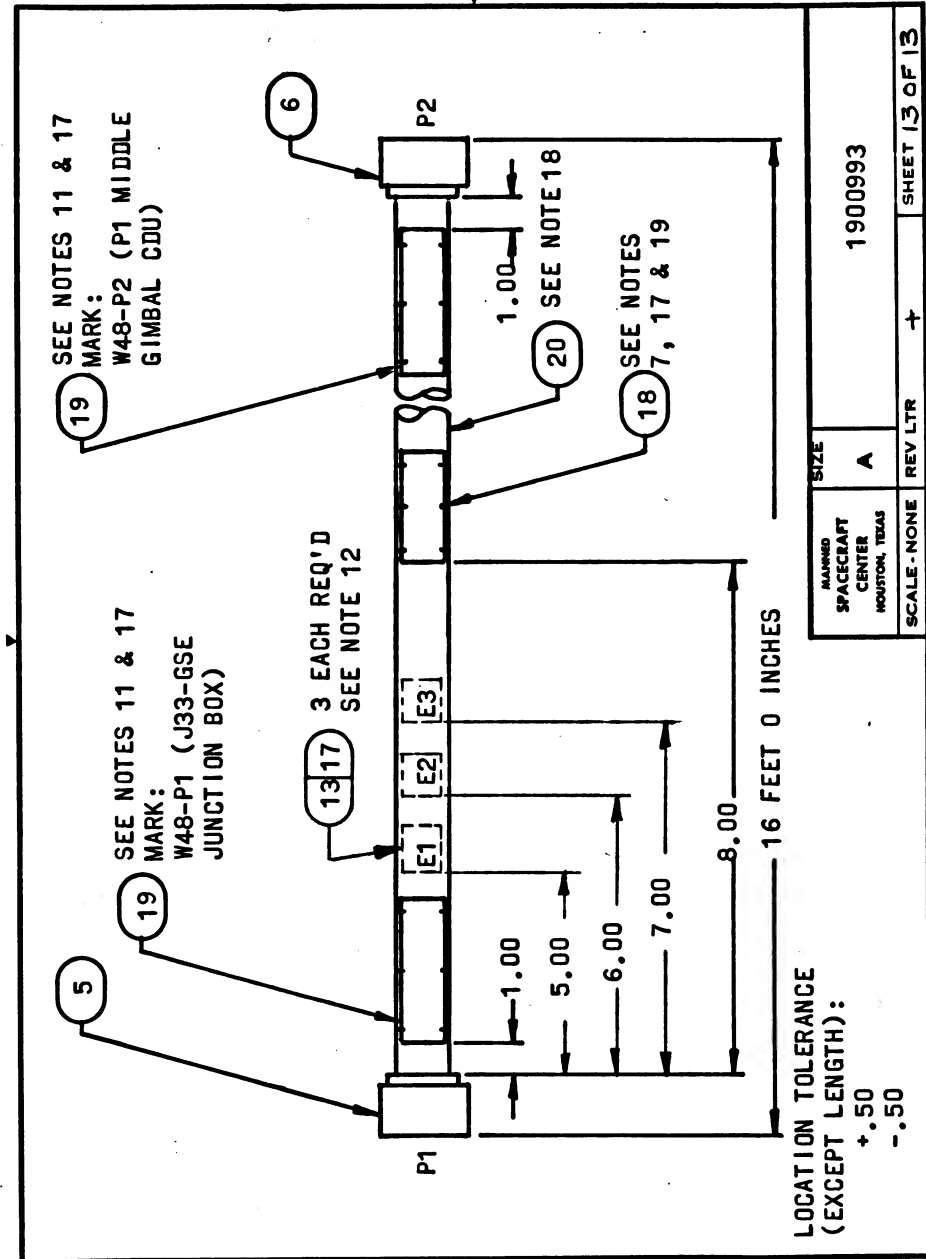
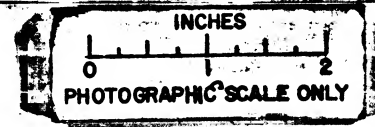
GIW

CABLE W-48

1900993

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|------|--|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| | | | | | A 14 | | | | |
| A 22A | 4 | SHLD A22 | 37N | | | E3 | 37N | | |
| A 22W | | P1-PP | 22N | 22 | | P2- 25 | 22N | 16 | |
| A 23 | 4 | P1-B | 22N | 22 | | E1 | 37N | | |
| A 24 | 4 | E1 | 37N | | | E2 | 37N | | |
| A 25 | 4 | E2 | 37N | | | E3 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900993 | |
| | | | | | | SCALE - NONE | REV LTR + | SHEET 12 OF 13 | |





| APPLICATION | | REVISIONS | | | |
|-------------|-------------|-----------|---|--------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 193774 1/1/64 | FEB 64 | R.F. 83 |
| | | B | CHANGE IN ACCORDANCE WITH CM 195639 REVISED CUSTOMER DATA V2-64 | MAR 64 | R.W. 84 |
| | | C | CHANGE IN ACCORDANCE WITH CM 196135 04/1/64 | APR 64 | CUL 84 |
| | | D | CHANGE IN ACCORDANCE WITH CM 197544 12/22/68 | MAY 64 | R.B. 84 |
| | | E | CHANGE IN ACCORDANCE WITH CM 197759 1/3/73 | JUN 64 | J.J. 84 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05653 DATE 1/7/64

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| REV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

| | |
|-----------------------------|-------------------|
| AC SPARK PLUG DIVISION, GMC | MANAGED |
| MILWAUKEE, WISCONSIN | SPACECRAFT CENTER |
| | HOUSTON, TEXAS |

| | |
|---|---|
| DRAWN: <i>Spauld</i> 1/10/63 CHECKED: <i>Spauld</i> 20/10/63 APPROVAL: <i>Spauld</i> 20/10/63 APPROVAL: <i>Spauld</i> 20/10/63 | CABLE, INTERCONNECT W46 ISS, OSS TESTING |
|---|---|

| | | |
|----------------|------|---------|
| CODE IDENT NO. | SIZE | REV |
| | A | 1900994 |

| | |
|-------|---------------|
| SCALE | SHEET 1 OF 13 |
|-------|---------------|

| PENNANT | GENERAL NOTES |
|---------|---|
| NOTE | |
| 1 | SEE CONDUCTOR CHART. PENNANT NOTE 1. |
| 2 | SEE CONDUCTOR CHART. PENNANT NOTE 2. |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARD PRESCRIBED BY MIL-D-70327. |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. |

| | | |
|--|-----------|---------------|
| MANUFACTURED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 |
| SCALE: NONE | REV LTR C | SHEET 2 OF 13 |

GIV CABLE W-44 1900994
 PENNANT
 NOTE
 14 A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY OF THE WIRE MARKER SLEEVE.
 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
 A - FROM END SHIELD
 L - WHITE WITH BLUE TRACER
 R - WHITE WITH RED TRACER
 Y - WHITE WITH YELLOW TRACER
 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
 17 SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR
 18 SEAL ZIPPER TUBING PER MD1002153
 19 SERIALIZE PER MD1002029
 20 THIS ITEM FURNISHED WITH ITEM 5
 21 ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT.
 22 SEE NOTES 10 AND 16
 MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
 SCALE: NONE REV LTR C SHEET 3 OF 13

GIV CABLE W-44 1900994
 PENNANT
 NOTE
 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED
 APPLICABLE LENGTH FOR WIRE OR CABLE
 STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD
 WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD
 UNDER 1 INCH .06-.08 .03-.05 .06-.06 .06-.06 .06-.06
 1 INCH TO 6 INCHES .50-.00 .06-.00 .25-.25 .25-.25 .25-.25
 6 INCHES TO 6 FEET 1.00-.00 .50-.50 .50-.50 .50-.50 .50-.50
 OVER 6 FEET 2.00-.00
 MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
 SCALE: NONE REV LTR A SHEET 4 OF 13

GIV CABLE W-44 1900994
 PENNANT
 LIST OF MATERIALS
 ITEM QTY PART NO DESCRIPTION
 1 1 1900994-001 WIRE MD1002181 TYPE 2 CLASS 4 WHT JKT 22AWG WHT/BLU WHT/RED 208 FT TOTAL LENGTH
 2 1 1900994-002 WIRE MD1002181 TYPE 1 CLASS 4 WHT JKT 22AWG WHITE 16 FT TOTAL LENGTH
 3 1 1900994-003 WIRE MD1002181 TYPE 3 CLASS 4 WHT JKT 22AWG WHT/BLU WHT/RED WHT/YEL 48 FT TOTAL LENGTH
 4 1 1900994-004 WIRE MD1002181 TYPE 3 CLASS 3, 22AWG, WHITE 75 FT TOTAL LENGTH
 5 1 MS5126F-24-61PZ (1897047-614) CONNECTOR PLUG
 6 1 1010431-002 CONNECTOR PLUG
 7 1 1000243-003 FERRULE, ELEC. COND.
 8 1 1000242-002 FERRULE, ELEC. COND.
 9 13 1000243-008 FERRULE, ELEC. COND.
 10 13 1000242-007 FERRULE, ELEC. COND.
 11 9 1000243-011 FERRULE, ELEC. COND.
 12 9 1000242-011 FERRULE, ELEC. COND.
 13 9 1010490-198 INSULATION, SLEEVING ELECT.
 14 1 1010490-200 INSULATION, SLEEVING ELECT.
 15 6 1010490-196 INSULATION, SLEEVING ELECT.
 16 3 1010490-258 INSULATION, SLEEVING ELECT.
 MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
 SCALE: NONE REV LTR A SHEET 5 OF 13

GIV CABLE W-44 1900994
 PENNANT
 LIST OF MATERIALS
 ITEM QTY PART NO DESCRIPTION
 17 3 1016006-002 SPLICE REDUCER
 18 100 1010444-002 CONNECTOR CONTACTS, SOCKETS
 19 1 1016128-011 BAND IDENTIFICATION
 20 2 1016128-041 BAND IDENTIFICATION
 21 1 1900994-005 ZIPPER TUBING MD1002155, TYPE 1, PLASTIC FLEXIBLE 1.00 IN. DIA 16 FT TOTAL LENGTH
 22 1 MIL-7-718 LACING TAPE, TYPE P, CLASS 2, BLACK (86-2732 NO. 18)
 23 CONNECTOR CONTACTS, PIN
 24 1 1097147-104,-106,-108,-112,-116 CABLE CLAMP SLEEVE
 25 1 1016202-024 RUBBER GROMMET
 26 1 1015902-046 TERMINAL LUG
 27 1 1900994-006 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH
 MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
 SCALE: NONE REV LTR B SHEET 6 OF 13

GIV CABLE W-46 1900994

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--------------------|-----------------------|--------------------|-----------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. |
| A 1 | 1 | 250 200 9 13 | A 13 | 250 200 A 13 7A | |
| A 1A | 4 | SHLD A1 | 37N | E1 | 37N |
| A 1L | | P1-Z | 22N 23 | P2-14 | 22N 18 |
| A 1R | | P1-Y | 22N 23 | P2-1 | 22N 18 |
| A 2 | 1 | 250 200 9 10 | A 13 | 250 200 A 13 7A | |
| A 2A | 4 | SHLD A2 | 37N | E1 | 37N |
| A 2L | | P1-C* | 22N 23 | P2-18 | 22N 18 |
| A 2R | | P1-B* | 22N 23 | P2-17 | 22N 18 |
| A 3 | 4 | P1-D* | 22N 23 | P2-4 | 22N 18 |
| A 4 | 1 | 250 200 9 10 | A 13 | 250 200 A 13 7A | |
| A 4A | 4 | SHLD A4 | 37N | E1 | 37N |
| A 4L | | P1-F* | 22N 23 | P2-22 | 22N 18 |
| A 4R | | P1-E* | 22N 23 | P2-8 | 22N 18 |
| A 5 | 1 | 250 200 9 10 | A 13 | 250 200 A 13 7A | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR + SHEET 7 OF 13

GIV CABLE W-46 1900994

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--------------------|-----------------------|--------------------|-----------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. |
| A 5A | 4 | SHLD A5 | 37N | E1 | 37N |
| A 5L | | P1-M* | 22N 23 | P2-10 | 22N 18 |
| A 5R | | P1-G* | 22N 23 | P2-9 | 22N 18 |
| A 6 | 3 | 280 250 11 12 | A 15 | 280 250 A 15 7A | |
| A 6A | 4 | SHLD A6 | 37N | E1 | 37N |
| A 6L | | P1-J* | 22N 23 | P2-25 | 22N 18 |
| A 6R | | P1-I* | 22N 23 | P2-12 | 22N 18 |
| A 6Y | | P1-K* | 22N 23 | P2-11 | 22N 18 |
| A 7 | 1 | 250 200 9 10 | A 13 | 250 200 A 13 7A | |
| A 7A | 4 | SHLD A7 | 37N | E1 | 37N |
| A 7L | | P1-N* | 22N 23 | P2-68 | 22N 18 |
| A 7R | | P1-W* | 22N 23 | P2-67 | 22N 18 |
| A 8 | 1 | 280 250 9 10 | A 15 | 280 250 A 15 7A | |
| A 8A | 4 | SHLD A8 | 37N | E2 | 37N |
| A 8L | | P1-O* | 22N 23 | P2-46 | 22N 18 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR + SHEET 8 OF 13

GIV CABLE W-46 1900994

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--------------------|-----------------------|--------------------|-----------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. |
| A 8R | | P1-P* | 22N 23 | P2-56 | 22N 18 |
| A 9 | 1 | 280 250 9 10 | A 15 | 280 250 A 15 7A | |
| A 9A | 4 | SHLD A9 | 37N | E2 | 37N |
| A 9L | | P1-S* | 22N 23 | P2-90 | 22N 18 |
| A 9R | | P1-R* | 22N 23 | P2-104 | 22N 18 |
| A 10 | 1 | 330 300 9 10 | A 13 | 330 300 A 13 7A | |
| A 10A | 4 | SHLD A10 | 37N | E2 | 37N |
| A 10L | | P1-V* | 22N 23 | P2-87 | 22N 18 |
| A 10R | | P1-U* | 22N 23 | P2-101 | 22N 18 |
| A 11 | 2 | 320 300 7 8 | A 15 | 320 300 A 15 7A | |
| A 11A | 4 | SHLD A11 | 37N | E2 | 37N |
| A 11L | | P1-T* | 22N 23 | P2-89 | 22N 18 |
| A 12 | 1 | 350 300 9 10 | A 15 | 350 300 A 15 7A | |
| A 12A | 4 | SHLD A12 | 37N | E2 | 37N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR + SHEET 9 OF 13

GIV CABLE W-46 1900994

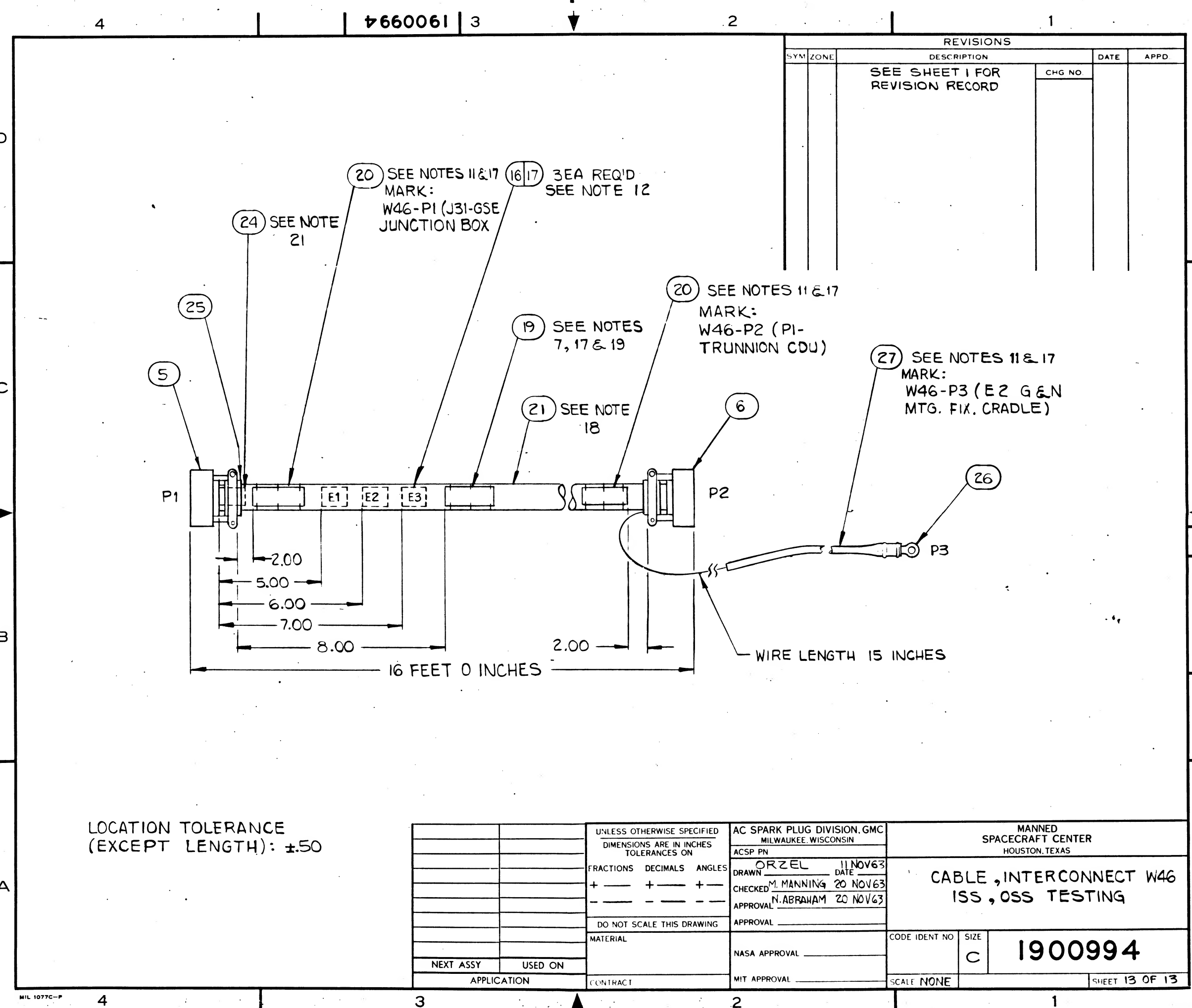
| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--------------------|-----------------------|--------------------|-----------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. NO. |
| A 12L | | P1-X* | 22N 23 | P2-86 | 22N 18 |
| A 12R | | P1-W* | 22N 23 | P2-100 | 22N 18 |
| A 13 | 2 | 330 300 11 12 | A 15 | 330 300 A 15 7A | |
| A 13A | 4 | SHLD A13 | 37N | P1-C | 22N 18 |
| A 13L | | P1-Z* | 22N 23 | P2-108 | 22N 18 |
| A 13R | | P1-Y* | 22N 23 | P2-107 | 22N 18 |
| A 13Y | | P1-AA | 22N 23 | P2-94 | 22N 18 |
| A 14 | 1 | 380 350 9 10 | A 15 | 380 350 A 15 7A | |
| A 14A | 4 | SHLD A14 | 37N | E3 | 37N |
| A 14L | | P1-DD | 22N 23 | P2-60 | 22N 18 |
| A 14R | | P1-CC | 22N 23 | P2-90 | 22N 18 |
| A 15 | 1 | 380 350 9 10 | A 15 | 380 350 A 15 7A | |
| A 15A | 4 | SHLD A15 | 37N | E3 | 37N |
| A 15L | | P1-FF | 22N 23 | P2-2 | 22N 18 |
| A 15R | | P1-EE | 22N 23 | P2-3 | 22N 18 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR B SHEET 10 OF 13

| CONDUCTOR | | | | | | | | | |
|---|-----|--------------------|----------------------|---------------|------------------|--------------------------|--------------------|----------------------|------------------|
| INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| NUMBER | NO. | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC | NO. | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | TERMINATION SPEC |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| A 16 | 1 | | 380 | 350 | 9 10 | 5 | | 380 | 350 |
| | | | | | A 13 | | | A 13 | 7A |
| A 16A | 4 | SHLD A16 | 37N | | | E3 | | 37N | |
| A 16L | | P1-JJ | 22N | 23 | | P2- 92 | | 22N | 18 |
| A 16R | | P1-MH | 22N | 23 | | P2-106 | | 22N | 18 |
| A 17 | 3 | | 380 | 350 | 11 12 | 5 | | 380 | 350 |
| | | | | | A 15 | | | A 15 | 7A |
| A 17A | 4 | SHLD A17 | 37N | | | E3 | | 37 | |
| A 17L | | P1-LL | 22N | 23 | | P2- 31 | | 22N | 18 |
| A 17M | | P1-KK | 22N | 23 | | P2- 32 | | 22N | 18 |
| A 17N | | P1-NH | 22N | 23 | | P2- 43 | | 22N | 18 |
| A 18 | 1 | | 430 | 400 | 9 10 | 5 | | 430 | 400 |
| | | | | | A 13 | | | A 13 | 7A |
| A 18A | 4 | SHLD A18 | 37N | | | E3 | | 37N | |
| A 18L | | P1-PP | 22N | 23 | | P2- 29 | | 22N | 18 |
| A 18R | | P1-NH | 22N | 23 | | P2- 28 | | 22N | 18 |
| A 19 | 4 | P3- 1 | 22N | 26 | | P2- 41 | | 22N | 18 |
| A 20 | 4 | P1-S | 22N | 23 | | E1 | | 37N | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANITO SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | SIZE A 1900994 | | | |
| SCALE - NONE | | | | | | REV LTR D SHEET 11 OF 13 | | | |

| CONDUCTOR | | | | | | | | | |
|---|-----|--------------------|----------------------|---------------|------------------|--------------------------|--------------------|----------------------|------------------|
| INDIVIDUAL LENGTH | | FROM | | | | TO | | | |
| NUMBER | NO. | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC | NO. | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | TERMINATION SPEC |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| A 21 | 4 | E1 | | | | E2 | | 37N | |
| A 22 | 4 | E2 | | | | E3 | | 37N | |
| A 23 | 4 | P1-D | 22N | 23 | | P1-E | | 22N | 23 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| MANITO SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | SIZE A 1900994 | | | |
| SCALE - NONE | | | | | | REV LTR E SHEET 12 OF 13 | | | |



| | | | | | | | |
|-------------|--|---|--|---|--|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | ACSP PN | | | |
| | | + - - - - - | | DRAWN ORZEL DATE 11 NOV 63 | | | |
| | | - - - - - | | CHECKED M. MANNING 20 NOV 63 | | | |
| | | | | APPROVAL N. ABRAHAM 20 NOV 63 | | | |
| | | | | DO NOT SCALE THIS DRAWING | | | |
| | | | | APPROVAL | | | |
| | | | | MATERIAL | | | |
| | | | | NASA APPROVAL | | | |
| | | | | MIT APPROVAL | | | |
| NEXT ASSY | | USED ON | | SCALE NONE | | SHEET 13 OF 13 | |
| APPLICATION | | CONTRACT | | | | | |

| GIV | | CABLE W-46 | | C | | 1900994 | |
|---|---|---------------|--|---------------|--|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900994 | | | |
| SCALE - NONE | | REV LTR C | | SHEET 2 OF 13 | | | |

| GIV | | CABLE W-46 | | C | | 1900994 | |
|---|--|---------------|--|---------------|--|---------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | THIS ITEM FURNISHED WITH ITEM 5 | | | | | | |
| 21 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE, SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | | | | | |
| 22 | SEE NOTES 10 AND 16 | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900994 | | | |
| SCALE - NONE | | REV LTR C | | SHEET 3 OF 13 | | | |

| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
|-------------|-------------|-----------|--|--------|----------|----------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 193774 TDR 07/27/64 | FEB 64 | J.F. | | |
| | | B | CHANGE IN ACCORDANCE WITH CM 195659 | MAR 64 | EWJ | | |
| | | C | REVISED CUSTOMER DATA V 2-64 | APR 64 | CUL | | |
| | | D | CHANGE IN ACCORDANCE WITH CM 196135 PER 7/28/64 | MAY 64 | RB | | |
| | | E | CHANGE IN ACCORDANCE WITH CM 197544 TDR 10/28/64 | JUN 64 | J.J. | | |
| | | F | CHANGE IN ACCORDANCE WITH CM 197759 TDR 12/23/64 | JUL 64 | JNP | | |
| | | | CHANGE IN ACCORDANCE WITH CM 199021 TDR 12/26/64 | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05653 DATE 1/7/64

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

SPACECRAFT CENTER HOUSTON, TEXAS

CABLE, INTERCONNECT W46 ISS, OSS TESTING

REV E

SIZE A

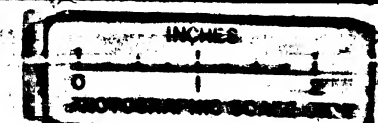
CODE IDENT NO. 1900994

SHEET 1 OF 13

SCALE - NONE

CONTRACT NAS 9-497

| GIV | | CABLE W-46 | | A | | 1900994 | |
|--|--|---------------|-----------|---------------|-----------|------------|--|
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED — | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | TOLERANCE | | | | | |
| | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | |
| UNDER 1 INCH | | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | |
| 1 INCH TO 6 INCHES | | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | |
| 6 INCHES TO 6 FEET | | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | |
| OVER 6 FEET | | +2.00-.00 | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900994 | | | |
| SCALE - NONE | | REV LTR A | | SHEET 4 OF 13 | | | |

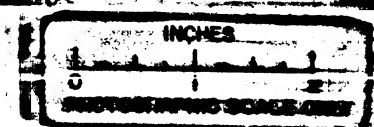


| | | | | | | | |
|---------|------|-------------------|---|---|---------|---------------|--|
| GIV | | CABLE W-46 | | D | | 1900994 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| 10 | 17 | 3 | 1016006-002 | SPlice REDUCER | | | |
| 10 | 18 | 108 | 1010464-002 | CONNECTOR CONTACTS, SOCKETS | | | |
| 10 | 19 | 1 | 1016128-011 | BAND IDENTIFICATION | | | |
| 10 | 20 | 2 | 1016128-041 | BAND IDENTIFICATION | | | |
| | 21 | 1 | 1900994-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC FLEXIBLE 1.00 IN. DIA 16 FT TOTAL LENGTH | | | |
| | 22 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| 20 | 23 | | | CONNECTOR CONTACTS, PIN | | | |
| 21 | 24 | AR | 1897147-104,-106,-108,-112,-116 | CABLE CLAMP SLEEVE | | | |
| 10 | 25 | 1 | 1016282-024 | RUBBER GROMMET | | | |
| 10 | 26 | 1 | 1015902-046 | TERMINAL LUG | | | |
| | 27 | 1 | 1900994-006 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | |
| | | | SCALE-NONE | REV LTR | D | SHEET 6 OF 13 | |

| | | | | | | | | | | | | | | |
|-------------------|-----|----------------------|---|---------|-------------------|---------------|----|----------------------|--------|-----|-------------------|---|----|----|
| GIV | | CABLE W-46 | | + | | 1900994 | | | | | | | | |
| CONDUCTOR | | FROM | | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | ITEM NO. | | | STRIP WIRE OR JACKET | | | ITEM NO. | | | |
| NUMBER | NO. | CIRCUIT POINT | | | NO. | | | CIRCUIT POINT | | | NO. | | | |
| A | 1 | 1 | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A | 13 | 7A |
| | | | | | | | | | | | | | | |
| A | 1A | 4 | SHLD A1 | 37N | | | | | E1 | 37N | | | | |
| A | 1L | | P1-Z | 22N | 23 | | | | P2- 14 | 22N | 18 | | | |
| A | 1R | | P1-Y | 22N | 23 | | | | P2- 1 | 22N | 18 | | | |
| A | 2 | 1 | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A | 13 | 7A |
| | | | | | | | | | | | | | | |
| A | 2A | 4 | SHLD A2 | 37N | | | | | E1 | 37N | | | | |
| A | 2L | | P1-C* | 22N | 23 | | | | P2- 18 | 22N | 18 | | | |
| A | 2R | | P1-B* | 22N | 23 | | | | P2- 17 | 22N | 18 | | | |
| A | 3 | 4 | P1-D* | 22N | 23 | | | | P2- 4 | 22N | 18 | | | |
| A | 4 | 1 | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A | 13 | 7A |
| | | | | | | | | | | | | | | |
| A | 4A | 4 | SHLD A4 | 37N | | | | | E1 | 37N | | | | |
| A | 4L | | P1-F* | 22N | 23 | | | | P2- 22 | 22N | 18 | | | |
| A | 4R | | P1-E* | 22N | 23 | | | | P2- 8 | 22N | 18 | | | |
| A | 5 | 1 | | 230 | 200 | 9 | 10 | 5 | | 230 | 200 | A | 13 | 7A |
| | | | | | | | | | | | | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | | | | | | | | |
| | | | SCALE-NONE | REV LTR | + | SHEET 7 OF 13 | | | | | | | | |

| | | | | | | | |
|---------|------|-------------------|---|--|---------|---------------|--|
| GIV | | CABLE W-46 | | A | | 1900994 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900994-001 | WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 22AWG WHT/BLU WHT/RED 208 FT TOTAL LENGTH | | | |
| | 2 | 1 | 1900994-002 | WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 22AWG WHITE 16 FT TOTAL LENGTH | | | |
| | 3 | 1 | 1900994-003 | WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 22AWG WHT/BLU WHT/RED WHT/YEL 48 FT TOTAL LENGTH | | | |
| | 4 | 1 | 1900994-004 | WIRE ND1002181 TYPE 1 CLASS 1, 22AWG, WHITE 75 FT TOTAL LENGTH | | | |
| 16 | 5 | 1 | MS3126F-24-61P2 (1897047-614) | CONNECTOR PLUG | | | |
| 22 | 6 | 1 | 1010411-002 | CONNECTOR PLUG | | | |
| 10 | 7 | 1 | 1000243-003 | FERRULE, ELEC. COND. | | | |
| 10 | 8 | 1 | 1000242-002 | FERRULE, ELEC. COND. | | | |
| 10 | 9 | 13 | 1000243-008 | FERRULE, ELEC. COND. | | | |
| 10 | 10 | 13 | 1000242-007 | FERRULE, ELEC. COND. | | | |
| 10 | 11 | 3 | 1000243-011 | FERRULE, ELEC. COND. | | | |
| 10 | 12 | 3 | 1000242-011 | FERRULE, ELEC. COND. | | | |
| 10 | 13 | 27 | 1010490-198 | INSULATION, SLEEVING ELEC. | | | |
| 10 | 14 | 1 | 1010490-200 | INSULATION, SLEEVING ELEC. | | | |
| 10 | 15 | 6 | 1010490-196 | INSULATION, SLEEVING ELEC. | | | |
| 10 | 16 | 3 | 1010490-258 | INSULATION, SLEEVING ELEC. | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | |
| | | | SCALE-NONE | REV LTR | A | SHEET 5 OF 13 | |

| | | | | | | | | | | | | | | |
|-------------------|-----|----------------------|---|---------|-------------------|---------------|----|----------------------|--------|-----|-------------------|---|----|----|
| GIV | | CABLE W-46 | | + | | 1900994 | | | | | | | | |
| CONDUCTOR | | FROM | | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | ITEM NO. | | | STRIP WIRE OR JACKET | | | ITEM NO. | | | |
| NUMBER | NO. | CIRCUIT POINT | | | NO. | | | CIRCUIT POINT | | | NO. | | | |
| A | 5A | 4 | SHLD A5 | 37N | | | | | E1 | 37N | | | | |
| A | 5L | | P1-H* | 22N | 23 | | | | P2- 10 | 22N | 18 | | | |
| A | 5R | | P1-G* | 22N | 23 | | | | P2- 9 | 22N | 18 | | | |
| A | 6 | 3 | | 230 | 250 | 11 | 12 | 5 | | 230 | 250 | A | 15 | 7A |
| | | | | | | | | | | | | | | |
| A | 6A | 4 | SHLD A6 | 37N | | | | | E1 | 37N | | | | |
| A | 6L | | P1-J* | 22N | 23 | | | | P2- 25 | 22N | 18 | | | |
| A | 6R | | P1-I* | 22N | 23 | | | | P2- 12 | 22N | 18 | | | |
| A | 6Y | | P1-K* | 22N | 23 | | | | P2- 11 | 22N | 18 | | | |
| A | 7 | 1 | | 230 | 250 | 9 | 10 | 5 | | 230 | 250 | A | 13 | 7A |
| | | | | | | | | | | | | | | |
| A | 7A | 4 | SHLD A7 | 37N | | | | | E1 | 37N | | | | |
| A | 7L | | P1-N* | 22N | 23 | | | | P2- 68 | 22N | 18 | | | |
| A | 7R | | P1-M* | 22N | 23 | | | | P2- 67 | 22N | 18 | | | |
| A | 8 | 1 | | 230 | 250 | 9 | 10 | 5 | | 230 | 250 | A | 13 | 7A |
| | | | | | | | | | | | | | | |
| A | 8A | 4 | SHLD A8 | 37N | | | | | E2 | 37N | | | | |
| A | 8L | | P1-Q* | 22N | 23 | | | | P2- 66 | 22N | 18 | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | | | | | | | | |
| | | | SCALE-NONE | REV LTR | + | SHEET 8 OF 13 | | | | | | | | |



61V

CABLE W-46

B

1900994

| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|------|-----|--|----------------------|-----|-----|----|----|-------------------|--|--|--|--|----------------------|-----|-----|------|----|-------------------|--|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| | | | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | |
| | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| NUMBER | ITEM | NC. | | | | | | | | | | | | | | | | | | | | | |
| A 12L | | | | P1-X* | 22N | | 23 | | | | | | | P2- 86 | 22N | | 18 | | | | | | |
| A 12R | | | | P1-W* | 22N | | 23 | | | | | | | P2-100 | 22N | | 18 | | | | | | |
| A 13 | 3 | | | | 330 | 300 | 11 | 12 | 5 | | | | | | 330 | 300 | A 13 | 7A | | | | | |
| | | | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 13A | 4 | | | SHLD A13 | 37N | | | | | | | | | P1-C | 22N | | | | | | | | |
| A 13L | | | | P1-Z* | 22N | | 23 | | | | | | | P2-108 | 22N | | 18 | | | | | | |
| A 13R | | | | P1-Y* | 22N | | 23 | | | | | | | P2-107 | 22N | | 18 | | | | | | |
| A 13Y | | | | P1-AA | 22N | | 23 | | | | | | | P2- 94 | 22N | | 18 | | | | | | |
| A 14 | 1 | | | | 380 | 350 | 9 | 10 | | | | | | | 380 | 350 | A 13 | 7A | | | | | |
| | | | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 14A | 4 | | | SHLD A14 | 37N | | | | | | | | | E3 | 37N | | | | | | | | |
| A 14L | | | | P1-DD | 22N | | 23 | | | | | | | P2- 60 | 22N | | 18 | | | | | | |
| A 14R | | | | P1-CC | 22N | | 23 | | | | | | | P2- 50 | 22N | | 18 | | | | | | |
| A 15 | 1 | | | | 380 | 350 | 9 | 10 | 5 | | | | | | 380 | 350 | A 13 | 7A | | | | | |
| | | | | | | | | | A 13 | | | | | | | | | | | | | | |
| A 15A | 4 | | | SHLD A15 | 37N | | | | | | | | | E3 | 37N | | | | | | | | |
| A 15L | | | | P1-FF | 22N | | 23 | | | | | | | P2- 2 | 22N | | 18 | | | | | | |
| A 15R | | | | P1-EE | 22N | | 23 | | | | | | | P2- 3 | 22N | | 18 | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

REV LTR

1900994

B

SHEET 10 OF 13

| GIV | | CABLE W-46 | | | | | | | | | | D | | 1900994 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|------------|----------------------|---|---|---|---|------------------|---|----|----|----|-----|----------------------|---|----|----|----|------------------|---------|----|----|----|-----|---------|----|----|----|----|----------------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR INDIVIDUAL LENGTH | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC | | | | | NO. | | | | | | | | | | | | | | | |
| | | | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | | | | | | |
| NUMBER | ITEM NO. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | |
| A 16 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16A | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17A | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 18 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 18A | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 18L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 18R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 19 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 20 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | SIZE | | | | | 1900994 | | | | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | SCALE - NONE | | | | | REV LTR | | | | | D | | | | | SHEET 11 OF 13 | | | | | | | | | |

GIV

CABLE W-46

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1900994

| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|----------------------|----------|--|----------------------|-----|-----|------|----|----------------------|-----|----|--|--|----------------------|-----|------|----|--|----------------------|--|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| STRIP WIRE OR JACKET | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | |
| NUMBER | ITEM NO. | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | |
| A 8R | | | P1-P* | 22N | 23 | | | P2- 56 | 22N | 18 | | | | | | | | | | | | |
| A 9 | 1 | | | 280 | 250 | 9 | 10 | 5 | | | | | 280 | 250 | A 13 | 7A | | | | | | |
| | | | | | | A 13 | | | | | | | | | | | | | | | | |
| A 9A | 4 | | SHLD A9 | 37N | | | | E2 | 37N | | | | | | | | | | | | | |
| A 9L | | | P1-S* | 22N | 23 | | | P2- 90 | 22N | 18 | | | | | | | | | | | | |
| A 9R | | | P1-R* | 22N | 23 | | | P2-104 | 22N | 18 | | | | | | | | | | | | |
| A 10 | 1 | | | 330 | 300 | 9 | 10 | 5 | | | | | 330 | 300 | A 13 | 7A | | | | | | |
| | | | | | | A 13 | | | | | | | | | | | | | | | | |
| A 10A | 4 | | SHLD A10 | 37N | | | | E2 | 37N | | | | | | | | | | | | | |
| A 10L | | | P1-V* | 22N | 23 | | | P2- 87 | 22N | 18 | | | | | | | | | | | | |
| A 10R | | | P1-U* | 22N | 23 | | | P2-101 | 22N | 18 | | | | | | | | | | | | |
| A 11 | 2 | | | 330 | 300 | 7 | 8 | 5 | | | | | 330 | 300 | A 14 | 7A | | | | | | |
| | | | | | | A 13 | | | | | | | | | | | | | | | | |
| A 11A | 4 | | SHLD A11 | 37N | | | | E2 | 37N | | | | | | | | | | | | | |
| A 11W | | | P1-T* | 22N | 23 | | | P2- 89 | 22N | 18 | | | | | | | | | | | | |
| A 12 | 1 | | | 330 | 300 | 9 | 10 | 5 | | | | | 330 | 300 | A 13 | 7A | | | | | | |
| | | | | | | A 13 | | | | | | | | | | | | | | | | |
| A 12A | 4 | | SHLD A12 | 37N | | | | E2 | 37N | | | | | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900994

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9 OF 13

| GIV | | CABLE W-46 | | | | | | | | | | E | | 1900994 | |
|-----|--|------------|--|--|--|--|--|--|--|--|--|---|--|---------|--|
|-----|--|------------|--|--|--|--|--|--|--|--|--|---|--|---------|--|

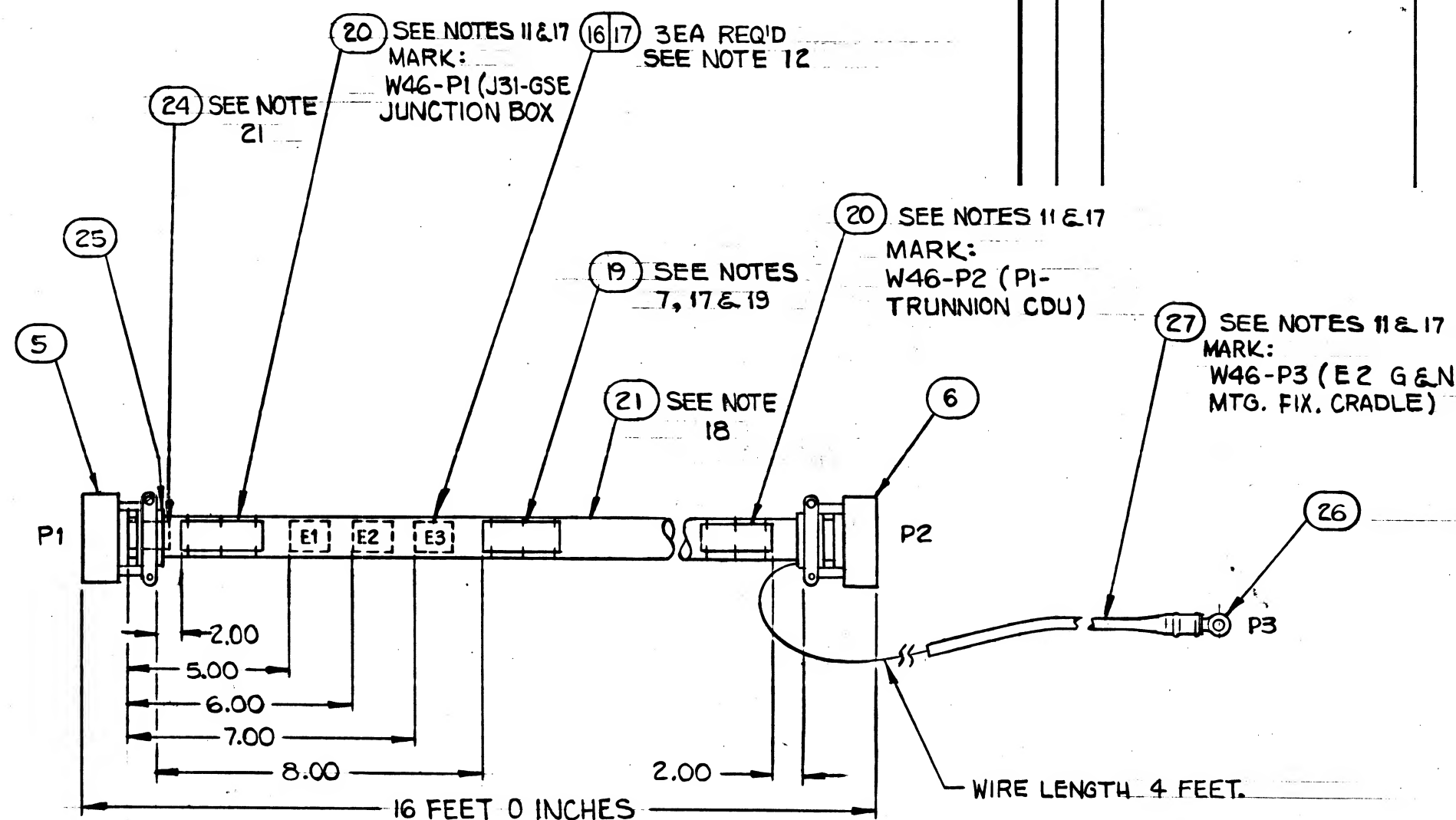
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| REVISIONS | | | | |
|-----------|------|------------------------------------|---------|-------|
| SYM | ZONE | DESCRIPTION | DATE | APPD. |
| | | SEE SHEET 1 FOR REVISION RECORD | CHG NO. | |



LOCATION TOLERANCE
(EXCEPT LENGTH): $\pm .50$

| | | | | | |
|-------------------|--|---|---|---|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | ACSP PN | CABLE, INTERCONNECT W46 | |
| | | + - - - - + - - - - + - - - - | DRAWN ORZEL 11 NOV 63 | ISS, OSS TESTING | |
| | | | CHECKED M. MANNING 20 NOV 63 | 1900994 | |
| | | | APPROVAL N. ABRAHAM 20 NOV 63 | CODE IDENT NO. SIZE | |
| | | DO NOT SCALE THIS DRAWING | APPROVAL [Signature] 9/14/64 | C | |
| | | MATERIAL | NASA APPROVAL [Signature] 9/15/64 | 1900994 | |
| NEXT ASSY USED ON | | CONTRACT | MIT APPROVAL [Signature] 11/15/64 | SCALE NONE | |
| APPLICATION | | | | SHEET 13 OF 13 | |

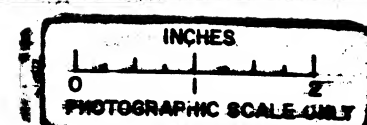
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|---------|----------|---|--|---------|----------------|---------|--|
| GIV | | CABLE W-46 | | G | | 1900994 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 1 1 | 1900994-001 | WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 22AWG WHT/BLU WHT/RED 160 FT TOTAL LENGTH | | | | |
| | 2 | | DELETED (1900994-002) DELETED | | | | |
| | 3 1 | 1900994-003 | WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 22AWG WHT/BLU WHT/RED WHT/YEL 37 FT TOTAL LENGTH | | | | |
| | 4 1 | 1900994-004 | WIRE ND1002181 TYPE 1 CLASS 1, 22AWG, WHITE 77 FT 9 INCHES TOTAL LENGTH | | | | |
| 16 | 5 1 | MS3126F-24-61PZ (1897047-614) | CONNECTOR PLUG | | | | |
| 22 | 6 1 | 1010411-002 | CONNECTOR PLUG | | | | |
| | 7 | | DELETED (1000243-003) | | | | |
| | 8 | | DELETED (1000242-002) | | | | |
| 10 | 9 10 | 1000243-008 | FERRULE, ELEC. COND. | | | | |
| 10 | 10 10 | 1000242-007 | FERRULE, ELEC. COND. | | | | |
| 10 | 11 3 | 1000243-011 | FERRULE, ELEC. COND. | | | | |
| 10 | 12 3 | 1000242-011 | FERRULE, ELEC. COND. | | | | |
| 10 | 13 21 | 1010490-198 | INSULATION, SLEEVING ELEC. | | | | |
| | 14 | | DELETED (1010490-200) | | | | |
| 10 | 15 5 | 1010490-196 | INSULATION, SLEEVING ELEC. | | | | |
| 10 | 16 3 | 1010490-258 | INSULATION, SLEEVING ELEC. | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | | |
| | | SCALE-NONE | REV LTR | G | SHEET 5 OF 186 | | |

| | | | | | | | |
|---------|----------|---|---|---------|----------------|---------|--|
| GIV | | CABLE W-46 | | G | | 1900994 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| 10 | 17 3 | 1016006-002 | SPlice REDUCER | | | | |
| 10 | 18 108 | 1010464-002 | CONNECTOR CONTACTS, SOCKETS | | | | |
| 10 | 19 1 | 1016128-011 | BAND IDENTIFICATION | | | | |
| 10 | 20 2 | 1016128-041 | BAND IDENTIFICATION | | | | |
| | 21 1 | 1900994-005 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC FLEXIBLE 1.00 IN. DIA 16 FT TOTAL LENGTH | | | | |
| | 22 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | | |
| 20 | 23 | | CONNECTOR CONTACTS, PIN | | | | |
| 21 | 24 AR | 1897147-104,-106,-108,-112,-116 | CABLE CLAMP SLEEVE | | | | |
| 10 | 25 1 | 1016282-024 | RUBBER GROMMET | | | | |
| 10 | 26 1 | 1015902-046 | TERMINAL LUG | | | | |
| | 27 1 | 1900994-006 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | | |
| | 28 1 | 1900994-007 | WIRE COAXIAL MIL-C-17/69A RG188A/U 14 FEET TOTAL LENGTH | | | | |
| 10 | 29 3 | 1000243-006 | FERRULE, ELECTRICAL CONNECTOR | | | | |
| 10 | 30 3 | 1000242-005 | FERRULE, ELECTRICAL CONNECTOR | | | | |
| 10 | 31 6 | 1010490-202 | INSULATION SLEEVING | | | | |
| | 32 4 | 1016369-420 | PIN CONTACT | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | | |
| | | SCALE-NONE | REV LTR | G | SHEET 6 OF 186 | | |

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|--|--|---|-----------|--------------|----------------|------------|--|
| GIV | | CABLE W-46 | | G | | 1900994 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | |
| | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | |
| UNDER 1 INCH | | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 | |
| 1 INCH TO 6 INCHES | | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | |
| 6 INCHES TO 6 FEET | | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | |
| OVER 6 FEET | | +2.00-.00 | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | | |
| | | SCALE-NONE | REV LTR | G | SHEET 4 OF 186 | | |

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|---------|----------|---|--|---------|----------------|---------|--|
| GIV | | CABLE W-46 | | G | | 1900994 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 33 3 | 1016369-288 | OUTER MALE BODY | | | | |
| | 34 3 | 1016369-588 | HYRING | | | | |
| | 35 3 | 1016369-388 | CONTACT, INNER FEMALE | | | | |
| | 36 1 | 1900994-008 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-007 4.5 FT TOTAL LENGTH | | | | |
| | 37 1 | 1016369-140 | CONNECTOR | | | | |
| | 38 1 | 1900994-009 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC FLEXIBLE 1.50 IN. DIA, 5 IN. TOT. LENGTH | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 | | | |
| | | SCALE-NONE | REV LTR | X H | SHEET 7 OF 186 | | |

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| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | |
|---|----|----------------------|--|--|--|---------|-------------------|-----|----|------|---|--|--|--------------------|--|----------------------|-----|-----|-------------------|------|---------------|--|--|-----|--|----------|--|-----|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | | | | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | ITEM NO. | | NO. | | STRIP WIRE OR JACKET | | | | | CIRCUIT POINT | | | | | ITEM NO. | | NO. | |
| NUMBER | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 5A | 4 | | | | SHLD A5 | 37N | | | | | | | | | E1 | 37N | | | | | | | | | | | | |
| A | 5L | | | | | P1-H* | 22N | | | 23 | | | | | | P2- 10 | 22N | | | 18 | | | | | | | | | |
| A | 5R | | | | | P1-G* | 22N | | | 23 | | | | | | P2- 9 | 22N | | | 18 | | | | | | | | | |
| A | 6 | 3 | | | | | 280 | 250 | 11 | 12 | 5 | | | | | | | 280 | 250 | A 15 | 7A | | | | | | | | |
| | | | | | | | | | | A 15 | | | | | | | | | | | | | | | | | | | |
| A | 6A | 4 | | | | SHLD A6 | 37N | | | | | | | | | E1 | 37N | | | | | | | | | | | | |
| A | 6L | | | | | P1-J* | 22N | | | 23 | | | | | | P2- 25 | 22N | | | 18 | | | | | | | | | |
| A | 6R | | | | | P1-I* | 22N | | | 23 | | | | | | P2- 12 | 22N | | | 18 | | | | | | | | | |
| A | 6Y | | | | | P1-K* | 22N | | | 23 | | | | | | P2- 11 | 22N | | | 18 | | | | | | | | | |
| A | 7 | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | |
| A | 7A | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | |
| A | 7L | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | |
| A | 7R | | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | |
| A | 8 | 1 | | | | | 280 | 250 | 9 | 10 | 5 | | | | | | | 280 | 250 | A 13 | 7A | | | | | | | | |
| | | | | | | | | | | A 13 | | | | | | | | | | | | | | | | | | | |
| A | 8A | 4 | | | | SHLD A8 | 37N | | | | | | | | | E2 | 37N | | | | | | | | | | | | |
| A | 8L | | | | | P1-Q* | 22N | | | 23 | | | | | | P2- 66 | 22N | | | 18 | | | | | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900994 | | | | | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | | | REV LTR | | G | | SHEET 9 OF 16 | | | | | | | | | | | | | |

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| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | |
|--|----------|----------------------|--|--|--|--|-------------------|--|--|--|--|----------------------|--|--|--|--|-------------------|--|--|--|--|--|--|------------------------------|--------------------|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | |
| | | STRIP WIRE OR JACKET | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | | | | |
| A 8R | | P1-P* | | | | | 22N 23 | | | | | P2- 56 | | | | | 22N 18 | | | | | | | | | |
| A 9 | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 9A | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 9L | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 9R | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 10 | 1 | | | | | | 330 300 9 10 5 | | | | | | | | | | 330 300 A 13 7A | | | | | | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | | | | | | | | |
| A 10A | 4 | SHLD A10 | | | | | 37N | | | | | E2 | | | | | 37N | | | | | | | | | |
| A 10L | | P1-V* | | | | | 22N 23 | | | | | P2- 87 | | | | | 22N 18 | | | | | | | | | |
| A 10R | | P1-U* | | | | | 22N 23 | | | | | P2-101 | | | | | 22N 18 | | | | | | | | | |
| A 11 | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 11A | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 11W | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12 | 1 | | | | | | 330 300 9 10 5 | | | | | | | | | | 330 300 A 13 7A | | | | | | | | | |
| | | | | | | | A 13 | | | | | | | | | | | | | | | | | | | |
| A 12A | 4 | SHLD A12 | | | | | 37N | | | | | E2 | | | | | 37N | | | | | | | | | |
| <div> <div>1</div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> </div> <div> <div>2</div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> </div> | | | | | | | | | | | | | | | | | | | | | | <div> <div>MANNED SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> | | <div>SIZE</div> <div>A</div> | <div>1900994</div> | |
| SCALE - NONE | | | | | | | | | | | | | | | | | | | | | | REV LTR | | G | SHEET 10 OF 10 | |

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| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----|----------|--|----------------------|--|---|---|-----|-------------------|-----|----|----------|---|----------------------|--|---|---|-----|-------------------|------|------|----------|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | T | I | N | CIRCUIT POINT | | | ITEM NO. | | STRIP WIRE OR JACKET | | T | I | N | CIRCUIT POINT | | | ITEM NO. | |
| A | 1 | 1 | | | | | | | 230 | 200 | 9 | 10 | 5 | | | | | | 230 | 200 | A 13 | 7A | |
| | | | | | | | | | | | | A 13 | | | | | | | | | | | |
| A | 1A | 4 | | SHLD A1 | | | | 37N | | | | | | E1 | | | | 37N | | | | | |
| A | 1L | | | P1-Z | | | | 22N | | | 23 | | | P2- 14 | | | | 22N | | | 18 | | |
| A | 1R | | | P1-Y | | | | 22N | | | 23 | | | P2- 1 | | | | 22N | | | 18 | | |
| A | 2 | 1 | | | | | | 230 | 200 | 9 | 10 | 5 | | | | | | 230 | 200 | A 13 | 7A | | |
| | | | | | | | | | | | | A 13 | | | | | | | | | | | |
| A | 2A | 4 | | SHLD A2 | | | | 37N | | | | | | E1 | | | | 37N | | | | | |
| A | 2L | | | P1-C* | | | | 22N | | | 23 | | | P2- 18 | | | | 22N | | | 18 | | |
| A | 2R | | | P1-B* | | | | 22N | | | 23 | | | P2- 17 | | | | 22N | | | 18 | | |
| A | 3 | 4 | | P1-D* | | | | 22N | | | 23 | | | P2- 4 | | | | 22N | | | 18 | | |
| A | 4 | 1 | | | | | | 230 | 200 | 9 | 10 | 5 | | | | | | 230 | 200 | A 13 | 7A | | |
| | | | | | | | | | | | | A 13 | | | | | | | | | | | |
| A | 4A | 4 | | SHLD A4 | | | | 37N | | | | | | E1 | | | | 37N | | | | | |
| A | 4L | | | P1-F* | | | | 22N | | | 23 | | | P2- 22 | | | | 22N | | | 18 | | |
| A | 4R | | | P1-E* | | | | 22N | | | 23 | | | P2- 8 | | | | 22N | | | 18 | | |
| A | 5 | 1 | | | | | | 230 | 200 | 9 | 10 | 5 | | | | | | 230 | 200 | A 13 | 7A | | |
| | | | | | | | | | | | | A 13 | | | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900994

SCALE - NONE

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GIV

CABLE W-46

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1900994

| CONDUCTOR INDIVIDUAL LENGTH | | FROM | | | | | | | | | | TO | | | | | | | | | |
|--------------------------------|----------|----------------------|--|--|--|--|-------------|-----|---|------|---|----------------------|-----|-----|--|-----|-------------|----|--|--|--|
| | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| | | STRIP WIRE OR JACKET | | | | | SPEC | | | | | STRIP WIRE OR JACKET | | | | | SPEC | | | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | |
| A 12L | | | | | | | P1-X* | 22N | | | | P2- 86 | 22N | | | | 18 | | | | |
| A 12R | | | | | | | P1-W* | 22N | | | | P2-100 | 22N | | | | 18 | | | | |
| A 13 | | | | | | | DELETED | | | | | | | | | | | | | | |
| | | | | | | | DELETED | | | | | | | | | | | | | | |
| A 13A | | | | | | | DELETED | | | | | | | | | | | | | | |
| A 13L | | | | | | | DELETED | | | | | | | | | | | | | | |
| A 13R | | | | | | | DELETED | | | | | | | | | | | | | | |
| A 13Y | | | | | | | DELETED | | | | | | | | | | | | | | |
| A 14 | 1 | | | | | | 380 | 350 | 9 | 10 | | | 380 | 350 | | | A 13 | 7A | | | |
| | | | | | | | | | | A 13 | | | | | | | | | | | |
| A 14A | 4 | | | | | | SHLD A14 | 37N | | | | E3 | | | | 37N | | | | | |
| A 14L | | | | | | | P1-DD | 22N | | 23 | | P2- 60 | 22N | | | 18 | | | | | |
| A 14R | | | | | | | P1-CC | 22N | | 23 | | P2- 50 | 22N | | | 18 | | | | | |
| A 15 | 1 | | | | | | 380 | 350 | 9 | 10 | 5 | | 380 | 350 | | | A 13 | 7A | | | |
| | | | | | | | | | | A 13 | | | | | | | | | | | |
| A 15A | 4 | | | | | | SHLD A15 | 37N | | | | E3 | | | | 37N | | | | | |
| A 15L | | | | | | | P1-FF | 22N | | 23 | | P2- 2 | 22N | | | 18 | | | | | |
| A 15R | | | | | | | P1-EE | 22N | | 23 | | P2- 3 | 22N | | | 18 | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900994

SCALE - NONE

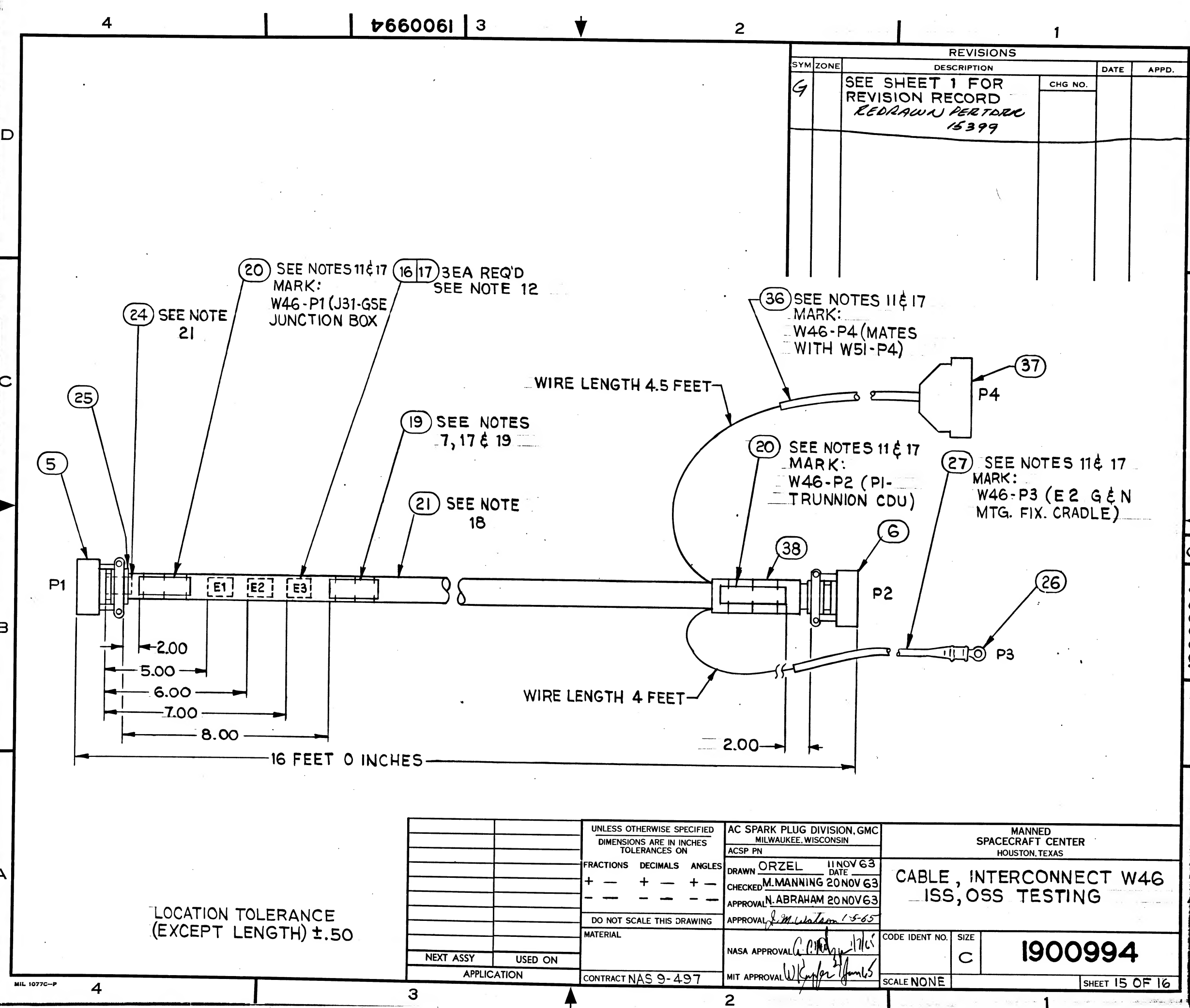
REV LTR

G

SHEET

11 OF 16

MIL 2085 - 4-65 WIR



| REVISIONS | | | | |
|-----------|------|--|---------|------|
| SYM | ZONE | DESCRIPTION | CHG NO. | DATE |
| G | | SEE SHEET 1 FOR REVISION RECORD REDRAWN PER TORR 15399 | | |
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|-------------|---------|---|---|---|---------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | ACSP PN | CABLE, INTERCONNECT W46 ISS, OSS TESTING | |
| | | + - + - + - | DRAWN ORZEL 11 NOV 63 DATE | | |
| | | - - - - - - | CHECKED M. MANNING 20 NOV 63 | | |
| | | | APPROVAL N. ABRAHAM 20 NOV 63 | | |
| | | DO NOT SCALE THIS DRAWING | APPROVAL J. M. Watson 1-5-65 | | |
| | | MATERIAL | NASA APPROVAL G. R. ... 1/16/65 | CODE IDENT NO. | SIZE |
| NEXT ASSY | USED ON | | MIT APPROVAL W. R. ... 1/16/65 | | C |
| APPLICATION | | CONTRACT NAS 9-497 | | SCALE NONE | 1900994 |
| | | | | SHEET 15 OF 16 | |

LOCATION TOLERANCE
(EXCEPT LENGTH) ±.50

GIV

CABLE W-46

1900994

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|---|----|---|--|----------------------|--|-----|-----|-------------------|----|--|--|----------------------|--|-----|-----------|-------------------|----|-----|--|----------------|--|--|--|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | | | | | | | | | |
| ITEM NO. | | 2 | | STRIP WIRE OR JACKET | | T N | | 1 | | NO. | | STRIP WIRE OR JACKET | | T N | | 1 | | NO. | | | | | | | | | | | |
| NUMBER | | 2 | | CIRCUIT POINT | | 2 | | T N | | ITEM NO. | | 2 | | T N | | ITEM NO. | | 2 | | | | | | | | | | | |
| A 21 | 4 | | | E1 | | 37N | | | | | | E2 | | 37N | | | | | | | | | | | | | | | |
| A 22 | 4 | | | E2 | | 22N | | | | | | E3 | | 37N | | | | | | | | | | | | | | | |
| A 23 | 4 | | | P1-D | | 22N | | 23 | | | | P1-E | | 22N | | 23 | | | | | | | | | | | | | |
| A 24 | 28 | | | | | 280 | 250 | 29 | 30 | 5 | | | | 36 | | A 31 | | | | | | | | | | | | | |
| | | | | | | | | A 31 | | | | | | | | | | | | | | | | | | | | | |
| A 24A | 4 | | | SHLD A24 | | 37N | | | | | | P2- 67 | | 10N | | 18 | | | | | | | | | | | | | |
| A 24X | | | | SHLD A24 | | | | | | | | P4-D SHLD | | N | 25 | 33 | 34 | | | | | | | | | | | | |
| A 24E | | | | P2- 68 | | 10N | | 18 | | | | P4-D | | 18 | | 35 | | | | | | | | | | | | | |
| A 25 | 28 | | | | | 380 | 350 | 29 | 30 | 5 | | | | 36 | | A 31 | | | | | | | | | | | | | |
| | | | | | | | | A 31 | | | | | | | | | | | | | | | | | | | | | |
| A 25A | 4 | | | SHLD A25 | | 37N | | | | | | P2- 92 | | 10N | | 18 | | | | | | | | | | | | | |
| A 25X | | | | SHLD A25 | | | | | | | | P4-E SHLD | | N | 25 | 33 | 34 | | | | | | | | | | | | |
| A 25E | | | | P2-106 | | 10N | | 18 | | | | P4-E | | 18 | | 35 | | | | | | | | | | | | | |
| A 26 | 3 | | | | | 380 | 350 | A 15 | 7A | | | | | 380 | 350 | 11 | 12 | 5 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | A 15 | | | | | | | | | | | | | |
| A 26B | 4 | | | SHLD A26 | | 37N | | | | | | P4-J | | 22N | | | | | | | | | | | | | | | |
| A 26L | | | | P2-108 | | 10N | | | | | | P4-B | | 22N | | 32 | | | | | | | | | | | | | |
| A 26R | | | | P2-107 | | 10N | | | | | | P4-F | | 22N | | 32 | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | SIZE A | | | | | 1900994 | | | | | | | | | |
| | | | | | | | | | | SCALE - NONE | | | | | REV LTR | | | | | SHEET 13 OF 18 | | | | | | | | | |

MIL 2085 - 2-65 WIR

GIV

CABLE W-46

1900994

| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|----|----------|--|----------------------|--|---------------|-----|-------|-------------------|----------|--|-----|--|----------------------|--|-------|----|----------|-------------------|-----|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | T I N | | ITEM NO. | | NO. | | STRIP WIRE OR JACKET | | T I N | | ITEM NO. | | NO. | | | |
| A 26Y | | | | P2- 94 | | 10N | | | | | | | | P4-J | | 22N | | 32 | | | | | |
| A 27 | 28 | | | | | 380 | 350 | 29 | 30 | | | 5 | | | | 56 | | A 31 | | | | | |
| | | | | | | | | A 31 | | | | | | | | | | | | | | | |
| A 27A | 4 | | | SHLD A27 | | 37N | | | | | | | | P2- 90 | | 10N | | 18 | | | | | |
| A 27X | | | | SHLD A27 | | | | | | | | | | P4-M SHLD | | N | 25 | 33 | 34 | | | | |
| A 27E | | | | P2-104 | | 10N | | 18 | | | | | | P4-M | | 18 | | 35 | | | | | |
| A 28 | 4 | | | P2- 89 | | 10N | | 18 | | | | | | P4-H | | 22N | | 32 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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MIL 2085 - 2-65 WIR

GIV

CABLE W-46

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1900994

| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | |
|---|---|-----|--|----------------------|--|--|--|-----|-------------------|----|------|--|----|----------------------|--------|-----------|-----|---------|-------------------|----------------|--|--|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | |
| ITEM NO. | | 2 | | STRIP WIRE OR JACKET | | | | | T 1 N 2 | | | | | STRIP WIRE OR JACKET | | | | | T 1 N 2 | | | | | | | | | |
| NUMBER | | NO. | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | | | | |
| A 16 | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16A | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16L | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16R | | | | DELETED | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17 | 3 | | | | | | | 380 | 350 | 11 | 12 | 5 | | | | | 380 | 350 | A 15 | 7A | | | | | | | | |
| | | | | | | | | | | | A 15 | | | | | | | | | | | | | | | | | |
| A 17A | 4 | | | SHLD A17 | | | | | | | 37N | | | E3 | | 37 | | | | | | | | | | | | |
| A 17L | | | | P1-LL | | | | | | | 22N | | 23 | | P2- 31 | | 22N | | 18 | | | | | | | | | |
| A 17R | | | | P1-KK | | | | | | | 22N | | 23 | | P2- 32 | | 22N | | 18 | | | | | | | | | |
| A 17Y | | | | P1-MM | | | | | | | 22N | | 23 | | P2- 43 | | 22N | | 18 | | | | | | | | | |
| A 18 | 1 | | | | | | | 430 | 400 | 9 | 10 | 5 | | | | | 430 | 400 | A 13 | 7A | | | | | | | | |
| | | | | | | | | | | | A 13 | | | | | | | | | | | | | | | | | |
| A 18A | 4 | | | SHLD A18 | | | | | | | 37N | | | E3 | | 37N | | | | | | | | | | | | |
| A 18L | | | | P1-PP | | | | | | | 22N | | 23 | | P2- 29 | | 22N | | 18 | | | | | | | | | |
| A 18R | | | | P1-NN | | | | | | | 22N | | 23 | | P2- 28 | | 22N | | 18 | | | | | | | | | |
| A 19 | 4 | | | P3- 1 | | | | | | | 25N | | 26 | | P2- 41 | | 22N | | 18 | | | | | | | | | |
| A 20 | 4 | | | P1-B | | | | | | | 22N | | 23 | | E1 | | 37N | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | 1900994 | | | | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | | | REV LTR | | G | | SHEET 12 OF 18 | | | | | | | | |

MIL 2085 - 2-65 WIR

NOTES

- 1 SEE CONDUCTOR CHART
2 SEE CONDUCTOR CHART
3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING
ALL SUFFIX LETTERS EXCEPT A AND B.
5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT
EACH TERMINATION.
6 SPIRALLING OF THE MARKING IS ALLOWED.
7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
.12 INCH HIGH CHARACTERS BLACK.
8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH
HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | | |
|--|---------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900994 | |
| SCALE - NONE | REV LTR | + | SHEET 2 OF 13 |

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
 - A - FROM END SHIELD
 - L - WHITE WITH BLUE TRACER
 - R - WHITE WITH RED TRACER
 - Y - WHITE WITH YELLOW TRACER
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES
- 17 SECURE TO CABLE USING ITEM 22. MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.
- 20 THIS ITEM FURNISHED WITH ITEM 5

| | | |
|--|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900994 |
| | A | |
| SCALE - NONE | REV LTR | + |
| | | SHEET 3 OF 13 |

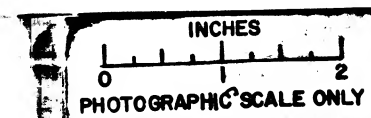
[illegible]

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR
WIRE OR CABLE, STRIP
WIRE, STRIP JACKET, CUT
WIRE OR CUT SHIELD

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|----------|----------|----------|----------|
| | WIRE OR CABLE | STRIP | | CUT | |
| | | WIRE | JACKET | WIRE | SHIELD |
| UNDER 1 INCH | + .06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
|--|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900994 |
| | A | |
| SCALE - NONE | REV LTR | + |
| | | SHEET 4 OF 13 |



| LIST OF MATERIAL | | | | |
|------------------|------|-------|-------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 16 | 3 | 1010490-258 | INSULATION, SLEEVING ELECT. |
| 10 | 17 | 3 | 1016006-002 | SPLICE REDUCER |
| 10 | 18 | 108 | 1010464-2 | CONNECTOR CONTACTS, SOCKETS |
| 10 | 19 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 20 | 2 | 1016128-041 | BAND IDENTIFICATION |
| 21 | 21 | 1 | 1900994-005 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC FLEXIBLE 9/16 DIA 16 FT TOTAL LENGTH |
| | 22 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| 20 | 23 | - | - | CONNECTOR CONTACTS, PIN |

| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 |
| SCALE - NONE | REV LTR + | SHEET 6 OF 13 |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|-----------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900994-001 | WIRE ND 1002181 TYPE 2 CLASS 4 WHT JKT 22 AWG WHT/BLU WHT/RED 208 FT TOTAL LENGTH |
| | 2 | 1 | -002 | WIRE ND 1002181 TYPE 1 CLASS 4 WHT JKT 22 AWG WHITE 16 FT TOTAL LENGTH |
| | 3 | 1 | -003 | WIRE ND 1002181 TYPE 3 CLASS 4 WHT JKT 22 AWG WHT/BLU WHT/RED WHT/YEL 48 FT TOTAL LENGTH |
| | 4 | 1 | -004 | WIRE ND 1002181 TYPE 1 CLASS 1, 22 AWG, WHITE 75 FT TOTAL LENGTH |
| 16 | 5 | 1 | MS3126F-24-61PZ | (1897047-614) CONNECTOR PLUG |
| 16,10 | 6 | 1 | 1010411-2 | CONNECTOR PLUG |
| 10 | 7 | 1 | 1000243-003 | FERRULE, ELEC. COND. |
| 10 | 8 | 1 | 1000242-002 | FERRULE, ELEC. COND. |
| 10 | 9 | 13 | 1000243-008 | FERRULE, ELEC. COND. |
| 10 | 10 | 13 | 1000242-007 | FERRULE, ELEC. COND. |
| 10 | 11 | 3 | 1000243-011 | FERRULE, ELEC. COND. |
| 10 | 12 | 3 | 1000242-011 | FERRULE, ELEC. COND. |
| 10 | 13 | 27 | 1010490-198 | INSULATION, SLEEVING ELECT. |
| 10 | 14 | 1 | 1010490-200 | INSULATION, SLEEVING ELECT. |
| 10 | 15 | 6 | 1010490-196 | INSULATION, SLEEVING ELECT. |

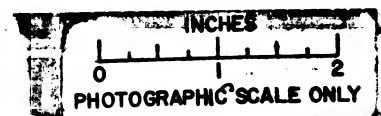
| | | |
|---|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 |
| SCALE - NONE | REV LTR + | SHEET 5 OF 13 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|--------|----------------------|-------------------|---------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 1 | 1 | 230 | 200 | 9 10 5 | 230 | 200 | A 13 7A | | |
| | | | | A 13 | | | | | |
| A 1A | 4 | SHLD A1 | 37N | | E1 | 37N | | | |
| A 1L | | P1-Z | 22N | 23 | P2- 14 | 22N | 18 | | |
| A 1R | | P1-Y | 22N | 23 | P2- 1 | 22N | 18 | | |
| A 2 | 1 | 230 | 200 | 9 10 5 | 230 | 200 | A 13 7A | | |
| | | | | A 13 | | | | | |
| A 2A | 4 | SHLD A2 | 37N | | E1 | 37N | | | |
| A 2L | | P1-C* | 22N | 23 | P2- 18 | 22N | 18 | | |
| A 2R | | P1-B* | 22N | 23 | P2- 17 | 22N | 18 | | |
| A 3 | 4 | P1-D* | 22N | 23 | P2- 4 | 22N | 18 | | |
| A 4 | 1 | 230 | 200 | 9 10 5 | 230 | 200 | A 13 7A | | |
| | | | | A 13 | | | | | |
| A 4A | 4 | SHLD A4 | 37N | | E1 | 37N | | | |
| A 4L | | P1-F* | 22N | 23 | P2- 22 | 22N | 18 | | |
| A 4R | | P1-E* | 22N | 23 | P2- 8 | 22N | 18 | | |
| A 5 | 1 | 230 | 200 | 9 10 5 | 230 | 200 | A 13 7A | | |
| | | | | A 13 | | | | | |

| | | | |
|--|---|-----------|---------------|
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | SCALE - NONE | REV LTR + | SHEET 7 OF 13 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|-------------------|---------|----------------------|-------------------|---------|--|--|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | | |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | | STRIP WIRE OR JACKET | ITEM NO. | | | |
| | | CIRCUIT POINT | | | CIRCUIT POINT | | | | |
| A 5A | 4 | SHLD A5 | 37N | | E1 | 37N | | | |
| A 5L | | P1-H* | 22N | 23 | P2- 10 | 22N | 18 | | |
| A 5R | | P1-G* | 22N | 23 | P2- 9 | 22N | 18 | | |
| A 6 | 3 | 280 | 250 | 11 12 5 | 280 | 250 | A 15 7A | | |
| | | | | A 15 | | | | | |
| A 6A | 4 | SHLD A6 | 37N | | E1 | 37N | | | |
| A 6L | | P1-J* | 22N | 23 | P2- 25 | 22N | 18 | | |
| A 6R | | P1-I* | 22N | 23 | P2- 12 | 22N | 18 | | |
| A 6Y | | P1-K* | 22N | 23 | P2- 11 | 22N | 18 | | |
| A 7 | 1 | 280 | 250 | 9 10 5 | 280 | 250 | A 13 7A | | |
| | | | | A 13 | | | | | |
| A 7A | 4 | SHLD A7 | 37N | | E1 | 37N | | | |
| A 7L | | P1-N* | 22N | 23 | P2- 68 | 22N | 18 | | |
| A 7R | | P1-M* | 22N | 23 | P2- 67 | 22N | 18 | | |
| A 8 | 1 | 280 | 250 | 9 10 5 | 280 | 250 | A 13 7A | | |
| | | | | A 13 | | | | | |
| A 8A | 4 | SHLD A8 | 37N | | E2 | 37N | | | |
| A 8L | | P1-Q* | 22N | 23 | P2- 66 | 22N | 18 | | |

| | | | |
|--|---|-----------|---------------|
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900994 |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | SCALE - NONE | REV LTR + | SHEET 8 OF 13 |



G1V

CABLE W-46

1900994

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|---|---------------|--------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 12L | | P1-X* | 22N | 23 | | P2- 86 | 22N | 18 | |
| A 12R | | P1-W* | 22N | 23 | | P2-100 | 22N | 18 | |
| A 13 | 3 | | 380 300 | 11 12 | 5 | | 380 300 | A 15 | 7A |
| | | | | A 15 | | | | | |
| A 13A | 4 | SHLD A13 | 37N | | | E2 | 37N | | |
| A 13L | | P1-Z* | 22N | 23 | | P2-108 | 22N | 18 | |
| A 13R | | P1-Y* | 22N | 23 | | P2-107 | 22N | 18 | |
| A 13Y | | P1-AA | 22N | 23 | | P2- 94 | 22N | 18 | |
| A 14 | 1 | | 380 350 | 9 10 | | | 380 350 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 14A | 4 | SHLD A14 | 37N | | | E3 | 37N | | |
| A 14L | | P1-DD | 22N | 23 | | P2- 60 | 22N | 18 | |
| A 14R | | P1-CC | 22N | 23 | | P2- 50 | 22N | 18 | |
| A 15 | 1 | | 380 350 | 9 10 | 5 | | 380 350 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 15A | 4 | SHLD A15 | 37N | | | E3 | 37N | | |
| A 15L | | P1-FF | 22N | 23 | | P2- 2 | 22N | 18 | |
| A 15R | | P1-EE | 22N | 23 | | P2- 3 | 22N | 18 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900994 | |
| | | | | | | SCALE - NONE | | REV LTR + SHEET 10 OF 13 | |

MIL 2085 - 4-63 WIR

G1V

CABLE W-46

1900994

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|---|---------------|--------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 16 | 1 | | 380 350 | 9 10 | 5 | | 380 350 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 16A | 4 | SHLD A16 | 37N | | | E3 | 37N | | |
| A 16L | | P1-JJ | 22N | 23 | | P2- 92 | 22N | 18 | |
| A 16R | | P1-HH | 22N | 23 | | P2-106 | 22N | 18 | |
| A 17 | 3 | | 380 350 | 11 12 | 5 | | 380 350 | A 15 | 7A |
| | | | | A 15 | | | | | |
| A 17A | 4 | SHLD A17 | 37N | | | E3 | 37N | | |
| A 17L | | P1-LL | 22N | 23 | | P2- 31 | 22N | 18 | |
| A 17R | | P1-KK | 22N | 23 | | P2- 32 | 22N | 18 | |
| A 17Y | | P1-MM | 22N | 23 | | P2- 43 | 22N | 18 | |
| A 18 | 1 | | 480 400 | 9 10 | 5 | | 480 400 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 18A | 4 | SHLD A18 | 37N | | | E3 | 37N | | |
| A 18L | | P1-PP | 22N | 23 | | P2- 29 | 22N | 18 | |
| A 18R | | P1-NN | 22N | 23 | | P2- 28 | 22N | 18 | |
| A 19 | 4 | P1-A | 22N | 23 | | P2- 41 | 22N | 18 | |
| A 20 | 4 | P1-B | 22N | 23 | | E1 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900994 | |
| | | | | | | SCALE - NONE | | REV LTR + SHEET 11 OF 13 | |

MIL 2085 - 4-63 WIR

G1V

CABLE W-46

1900994

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|---|---------------|-------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 8R | | P1-P* | 22N | 23 | | P2- 56 | 22N | 18 | |
| A 9 | 1 | | 280 250 | 9 10 | 5 | | 280 250 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 9A | 4 | SHLD A9 | 37N | | | E2 | 37N | | |
| A 9L | | P1-S* | 22N | 23 | | P2- 90 | 22N | 18 | |
| A 9R | | P1-R* | 22N | 23 | | P2-104 | 22N | 18 | |
| A 10 | 1 | | 380 300 | 9 10 | 5 | | 380 300 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 10A | 4 | SHLD A10 | 37N | | | E2 | 37N | | |
| A 10L | | P1-V* | 22N | 23 | | P2- 87 | 22N | 18 | |
| A 10R | | P1-U* | 22N | 23 | | P2-101 | 22N | 18 | |
| A 11 | 2 | | 380 300 | 7 8 | 5 | | 380 300 | A 14 | 7A |
| | | | | A 13 | | | | | |
| A 11A | 4 | SHLD A11 | 37N | | | E2 | 37N | | |
| A 11W | | P1-T* | 22N | 23 | | P2- 89 | 22N | 18 | |
| A 12 | 1 | | 380 300 | 9 10 | 5 | | 380 300 | A 13 | 7A |
| | | | | A 13 | | | | | |
| A 12A | 4 | SHLD A12 | 37N | | | E2 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900994 | |
| | | | | | | SCALE - NONE | | REV LTR + SHEET 9 OF 13 | |

MIL 2085 - 4-63 WIR

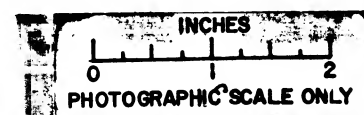
G1V

CABLE W-46

1900994

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-----|---|---------------|--------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 21 | 4 | E1 | 37N | | | E2 | 37N | | |
| A 22 | 4 | E2 | 22N | | | E3 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900994 | |
| | | | | | | SCALE - NONE | | REV LTR + SHEET 12 OF 13 | |

MIL 2085 - 4-63 WIR



181 5660081

NOTES:
1. SECURE ITEM 3 USING ITEM 6.

| PART NO. | QUAN | DESCRIPTION | ITEM NO |
|-----------------|------|------------------------------|---------|
| 1900098 | 1 | COOLANT SUPPLY | 1 |
| 1900015-061 | 2 | HANDLE ASSY | 2 |
| 1015831-253 | 8 | SCREW-FLAT HEAD | 3 |
| 1901304-219 | 1 | NAMEPLATE | 4 |
| AN535-0-4 | 4 | DRIVE SCREWS | 5 |
| MIL-S-40083C130 | AR | (E5-2544-5) SEALING COMPOUND | 6 |

| REVISIONS 04810 | | | | |
|-----------------|--|---------|-----------|------------------------|
| SYM | DESCRIPTION | CHG NO. | DATE | APPD. |
| A | CHANGE IN ACCORDANCE WITH CM-193629 TDRR 09130 | - | 8-JAN-64 | M.G. <i>[initials]</i> |
| B | CHANGE IN ACCORDANCE WITH CM-193930 TDRR 09131 | - | 13-JAN-64 | M.G. <i>[initials]</i> |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04810 DATE 26 Nov 1963

| | | | | | | | | | |
|-------------------|--|---|--|---|--|---|--|--|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | FRACTIONS DECIMALS ANGLES | | DRAWN <i>J. Kilvinger</i> DATE 8 NOV 63 | | COOLANT SUPPLY ASSY | | | |
| | | + - + - + - | | CHECKED <i>W. Suell</i> 8 Nov 63 | | | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <i>J. Van Den Kerkhof</i> | | | | | |
| | | MATERIAL | | APPROVAL <i>L. Gedeman</i> 11/2/63 | | CODE IDENT NO. SIZE B 1900995 | | | |
| 1900145-011 | | | | NASA APPROVAL <i>W. J. Rhine</i> | | | | | |
| NEXT ASSY USED ON | | | | MIT APPROVAL <i>W. K. Kopp</i> 26 Nov 63 | | SCALE | | | |
| APPLICATION | | CONTRACT NAS 9-497 | | | | SHEET 1 OF 1 | | | |

121 5660061

NOTES:
1. SECURE ITEM 3 USING ITEM 6.

| PART NO. | QUAN | DESCRIPTION | ITEM NO |
|-----------------|------|-----------------------------|---------|
| 1900098 | 1 | COOLANT SUPPLY | 1 |
| 1900015-061 | 2 | HANDLE ASSY | 2 |
| AN507C832R12 | 8 | (1897003-568)SCREW, FL.HD. | 3 |
| 1901304-219 | 1 | NAMEPLATE | 4 |
| AN535-04 | 4 | DRIVE SCREWS | 5 |
| MIL-S-40083C130 | AR | (ES-2544-5)SEALING COMPOUND | 6 |

| REVISIONS 04810 | | | |
|-----------------|--|---------|-----------------------------------|
| SYM | DESCRIPTION | CHG NO. | DATE APPD. |
| A | CHANGE IN ACCORDANCE WITH CM-193629 TDRR 09130 | - | 8-JAN-64 M.G. <i>[Signature]</i> |
| B | CHANGE IN ACCORDANCE WITH CM-193930 TDRR 09131 | - | 12-JAN-64 M.G. <i>[Signature]</i> |
| C | REVISED PER TDRR 10873 | - | 20-JUL-64 R.F. <i>[Signature]</i> |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04810 DATE 26 Nov 1983

| | | | | | | | |
|-------------|--|---|----------|---|----------------------------------|---|---------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS | DECIMALS | ANGLES | DRAWN <i>J. Kelvinger</i> | DATE 8 NOV 63 | COOLANT SUPPLY ASSY |
| | | + - - | + - - | + - - | CHECKED <i>W. S. Sells</i> | 8 Nov 63 | |
| | | - - - | - - - | - - - | APPROVAL <i>Mr. Van Der Kolk</i> | | |
| | | DO NOT SCALE THIS DRAWING | | | APPROVAL <i>L. Gedman</i> | 11/22/63 | |
| | | MATERIAL | | | NASA APPROVAL <i>W. J. Rhine</i> | 11-26-63 | CODE IDENT NO. |
| 1900145-011 | | | | | MIT APPROVAL <i>W. Kupper</i> | 26 Nov 63 | SIZE B |
| NEXT ASSY | | USED ON | | | SCALE | | 1900995 |
| APPLICATION | | CONTRACT NAS 9-497 | | | | | SHEET 1 OF 1 |

1900995 1

NOTES:
1. SECURE ITEM 3 USING ITEM 6.

| PART NO. | QUAN | DESCRIPTION | ITEM NO |
|-----------------|------|-----------------------------|---------|
| 1900098 | 1 | COOLANT SUPPLY | 1 |
| 1900015-061 | 2 | HANDLE ASSY | 2 |
| AN507C832R12 | 8 | (1897003-568)SCREW, FL.HD. | 3 |
| 1901304-219 | 1 | NAMEPLATE | 4 |
| AN535-0-4 | 4 | DRIVE SCREWS | 5 |
| MIL-S-40083C130 | AR | (E5-2544-5)SEALING COMPOUND | 6 |

| REVISIONS 04810 | | | |
|-----------------|---|-----------|-------|
| SYM | DESCRIPTION | DATE | APPD. |
| (A) A | CHANGE IN ACCORDANCE WITH CM-193629 TDR 09130 | 8-JAN-64 | M.G. |
| (B) B | CHANGE IN ACCORDANCE WITH CM-193930 TDR 09131 | 17-JAN-64 | M.G. |
| (C) C | REVISED PER TDR 10873 TDR 10873 | 20 JUL 64 | RJE |
| (D) D | REPLACED WITH CHANGE BY REV "E" PER TDR 12278 | 2 AUG 64 | JMP |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04810 DATE 26 Nov 1963

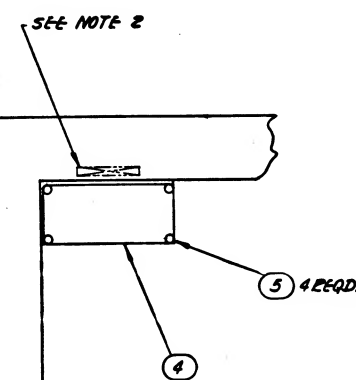
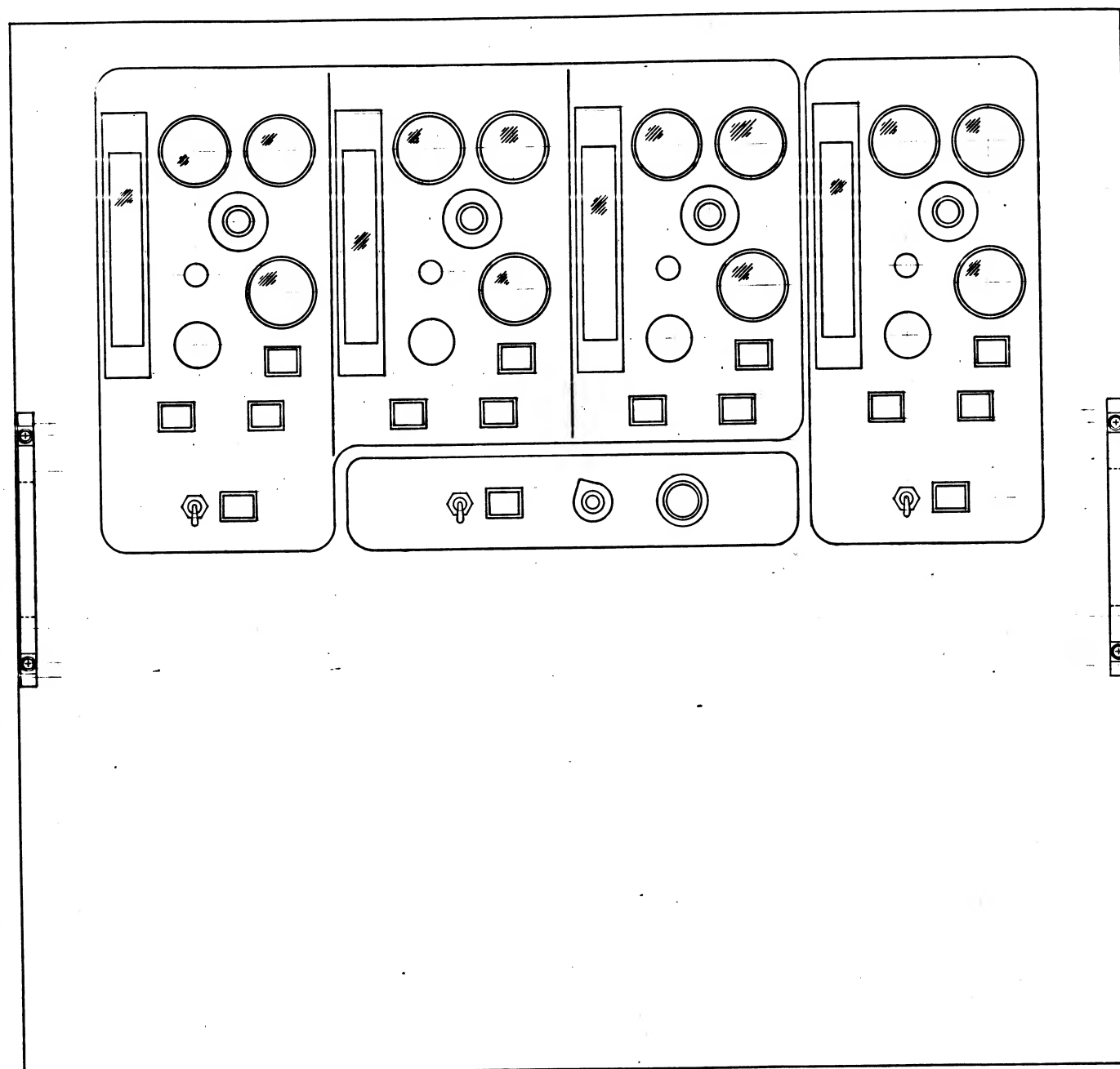
(D) REPLACED WITH CHANGE BY REV "E"

| | | | | | | | |
|-------------------|--|---|--|---|--|---|---------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | DRAWN <i>K. Bringer</i> DATE 8 NOV 63 | | COOLANT SUPPLY ASSY | |
| | | + - + - + - | | CHECKED <i>W. Seale</i> 8 Nov 63 | | | |
| | | - - - - - | | APPROVAL <i>J. Van Den Kerkhof</i> | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <i>L. G. Coleman</i> 11/21/63 | | | |
| 1900145-011 | | MATERIAL | | NASA APPROVAL <i>W. J. Kline</i> 11-26-63 | | CODE IDENT NO. | SIZE |
| NEXT ASSY USED ON | | | | MIT APPROVAL <i>W. Kupper</i> 26 Nov 63 | | B | 1900995 |
| APPLICATION | | CONTRACT NAS 9-497 | | SCALE | | SHEET 1 OF 1 | |

MIL 10778-P

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 2. MARK APPLICABLE REVISION LETTER 'DRAWING REVISION LETTER' PER ND1002019, 12 HIGH, COLOR BLACK, CENTERIZE .12 ABOVE (4).
 3. APPLY (6) TO ITEM (3) IN ACCORDANCE WITH ND1002211.

| REVISIONS | | DATE | APPD. |
|-----------|--|----------|-------|
| BY | DESCRIPTION | CHG. NO. | DATE |
| E | REPLACES REV. D WITH CHANGE PER TDRR 18E78 | | |



(2) 2 REQD.

(3) 8 REQD. (SEE NOTE 3)

FOR INFORMATION ONLY

CLASS B RELEASE FOR No. 04810 DATE 26 April 69

(1) REPLACES REV'D WITH CHANGE

| ITEM NO. | QTY | PART OR IDENTIFYING NUMBER | DESCRIPTION |
|----------|-----|----------------------------|---------------------------------|
| 6 | AP | MIL-S-22473 | THD. SEALING COMPOUND (GRADE E) |
| 5 | 4 | AN535-0-4 | (1897109-104) DRIVE SCREW |
| 4 | 1 | 1901304-219 | NAME PLATE |
| 3 | 8 | 1015831-253 | SCREEN-FLAT HEAD |
| 2 | 2 | 1900015-061 | HANDLE ASSEMBLY |
| 1 | 1 | 1900098-011 | COOLANT SUPPLY |

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | AC SPARK PLUG DIVISION, GNC MILWAUKEE, WISCONSIN | SHAWNEE SPACECRAFT CENTER HOUSTON, TEXAS |
|---|--|--|
| FRACTIONS DECIMALS ANGLES | AS SHOWN DATE 5 JUNE 64 | DATE 5 JUN 64 |
| ++ + - - + | CHECKED 5 JUN 64 | APPROVAL 5 JUN 64 |
| DO NOT SCALE THIS DRAWING | APPROVAL 5 JUN 64 | APPROVAL 5 JUN 64 |
| MATERIAL | NASA APPROVAL 5 JUN 64 | CODE IDENT NO. 1900995 |
| NEXT ASSY | CONTRACT 1454-897 | SCALE 1:2 |
| APPLICATION | WT APPROVAL 5 JUN 64 | SHEET 1 OF 1 |

5660061

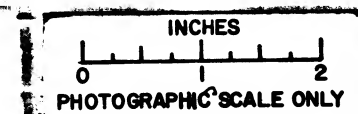
| PART NO | QUAN | DESCRIPTION |
|-------------|------|-----------------|
| 1900098 | 1 | COOLANT SUPPLY |
| 1900015-061 | 2 | HANDLE ASSY |
| 1015831-257 | 8 | SCREW-FLAT HEAD |

| REVISIONS 04810 | | | |
|-----------------|-------------|---------|-------|
| SYM | DESCRIPTION | DATE | APPD. |
| | | CHG NO. | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04810 DATE 26 Nov 1963

| | | | | | | | |
|-------------|--|---|--|---|--|---|---------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | ACSP PN | | COOLANT SUPPLY ASSY | |
| | | + — + — + — | | DRAWN <u>J. Kilinger</u> DATE <u>8 Nov 63</u> | | | |
| | | - - - - - | | CHECKED <u>W. Snell</u> <u>8 Nov 63</u> | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <u>W. Van Der Kolk</u> | | | |
| | | MATERIAL | | APPROVAL <u>L. Gedman</u> <u>11/22/63</u> | | | |
| 1900145-011 | | | | NASA APPROVAL <u>W. J. Rhine</u> | | CODE IDENT NO. | SIZE |
| NEXT ASSY | | USED ON | | MIT APPROVAL <u>W. Kupper</u> <u>26 Nov 63</u> | | | B |
| APPLICATION | | CONTRACT <u>NAS 9-497</u> | | SCALE | | | 1900995 |
| | | | | | | SHEET 1 OF 1 | |



GJL CABLE W-49 1900996

| PENNA NOTE | GENERAL NOTES |
|---------------|---|
| 1 | SEE CONDUCTOR CHART, PENNA NOTE 1. |
| 2 | SEE CONDUCTOR CHART, PENNA NOTE 2. |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (E6-267). .12 INCH HIGH CHARACTERS WHITE. |
| 8 | Y OR N IN FINED COLUMN INDICATES YES OR NO. |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. |

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE-NONE | REV LTR | C |
| SHEET 2 OF 13 | | |

GJL CABLE W-49 1900996

| PENNA NOTE | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|------------|-----------|---------------|------------|------------|------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------------------|------------|--|-----------|-----------|-----------|-------------|------------|--|--|--|--|
| | TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.</th> <th>TOLERANCE</th> </tr> <tr> <th></th> <th>WIRE OR CABLE</th> <th>WIRE STRIP</th> <th>CUT JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+ .06-.00</td> <td>+ .03-.00</td> <td>+ .36-.06</td> <td>+ .06-.06</td> <td>+ .06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+ .50-.00</td> <td>+ .06-.00</td> <td>+ .25-.25</td> <td>+ .25-.25</td> <td>+ .25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+ 1.00-.00</td> <td></td> <td>+ .50-.50</td> <td>+ .50-.50</td> <td>+ .50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+ 2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | WIRE OR CABLE | WIRE STRIP | CUT JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | + .06-.00 | + .03-.00 | + .36-.06 | + .06-.06 | + .06-.06 | 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | OVER 6 FEET | + 2.00-.00 | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | TOLERANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WIRE OR CABLE | WIRE STRIP | CUT JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .36-.06 | + .06-.06 | + .06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | + 1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | + 2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--|-----------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE-NONE | REV LTR | C |
| SHEET 4 OF 13 | | |

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 05653 DATE 11/7/69

| APPLICATION | REVISIONS | DATE | APPROVAL |
|----------------------|--|--------|----------|
| NEXT ASSY 1901308 | CHANGE IN ACCORDANCE WITH CM 156123 | FEB 64 | JJ 166 |
| | CHANGE IN ACCORDANCE WITH CM 156123 | FEB 64 | JJ 166 |
| | CHANGE IN ACCORDANCE WITH CM 156123 | FEB 64 | JJ 166 |
| | CHANGE IN ACCORDANCE WITH CM 156123 | FEB 64 | JJ 166 |
| | ADDED CUSTOMER DATA (12-64) | APR 64 | JJ 166 |
| | CHANGE IN ACCORDANCE WITH CM 156299 | MAY 64 | RB |
| | REVISED PER TDR 04717 | 64 | CP |

| | |
|---|-------------------------------------|
| AC SPARK PLUG DIVISION, GNC MILWAUKEE, WISCONSIN | SPACECRAFT CENTER HOUSTON, TEXAS |
| ACSP PN | 1900996 |
| DATE 19 NOV 63 | SIZE A |
| CHECKED 20 NOV 63 | CODE IDENT NO |
| APPROVAL 11 NOV 63 | 1900996 |
| APPROVAL 11 NOV 63 | REV E |
| NASA APPROVAL 11 NOV 63 | SCALE-NONE |
| MIT APPROVAL 11 NOV 63 | SHEET 1 OF 13 |
| CONTRACT | |

GJL CABLE W-49 1900996

| PENNA NOTE | GENERAL NOTES |
|---------------|--|
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. |
| 17 | SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR. |
| 18 | SEAL ZIPPER TUBING PER ND1002153. |
| 19 | SERIALIZE PER ND1002023 |
| 20 | ITEM 23 FURNISHED WITH ITEM 4. |
| 21 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY AND MAY BE CUT LENGTH WISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE-NONE | REV LTR | C |
| SHEET 3 OF 13 | | |

| | | | | | | | |
|---------|------|-------------------|------------------------------|--|--------------------------|-----------|---------|
| GJL | | CABLE W-49 | | C | | 1900996 | |
| PENNAHT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900996-001 | WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT 345 FT TOTAL LENGTH | | | |
| | 2 | 1 | 1900996-002 | WIRE ND1002181 TYPE 1 CLASS 4 22AWG WHT JAKT WHT. 128 FT TOTAL LENGTH | | | |
| | 3 | 1 | 1900996-003 | WIRE ND1002181 TYPE 2 CLASS 4 22AWG WHT JAKT WHT/RED. WHT/BLU 128 FT TOTAL LENGTH | | | |
| 16 | 4 | 1 | MS3126F-22-55P (1897J45-55U) | CONNECTOR | | | |
| 10 | 5 | 1 | 1010411- | 1 | CONNECTOR | | |
| 10 | 6 | 1 | 1010607- | 1 | CONNECTOR | | |
| 10 | 7 | 9 | 1000243- | 3 | FERRULE, ELECT. COND | | |
| 10 | 8 | 9 | 1000242- | 2 | FERRULE, ELECT. COND | | |
| 10 | 9 | 8 | 1000243- | 8 | FERRULE, ELECT. COND | | |
| 10 | 10 | 8 | 1000242- | 7 | FERRULE, ELECT. COND | | |
| 10 | 11 | 25 | 1010490-198 | INSULATION, SLEEVING, ELECT. | | | |
| 10 | 12 | 9 | 1010490-200 | INSULATION, SLEEVING, ELECT. | | | |
| 10 | 13 | 4 | 1010490-258 | INSULATION, SLEEVING, ELECT. | | | |
| 10 | 14 | 1 | 1016128-011 | BAND-IDENTIFICATION | | | |
| 10 | 15 | 3 | 1016128-041 | BAND-IDENTIFICATION | | | |
| 10 | 16 | 4 | 1016006-002 | SPLICE REDUCER | | | |
| 10 | 17 | 216 | 1010464- | 2 | CONNECTOR CONTACT SOCKET | | |
| | | | | MANHED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900996 |
| | | | | SCALE-NONE | | REV LTR | C |
| | | | | | | SHEET | 5 OF 13 |

| | | | | | | | |
|---------|------|-------------------|----------------------------|---|-----------------|---------|--|
| GJL | | CABLE W-49 | | D | | 1900996 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 18 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| | 19 | 1 | 1900996-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE, .88 DIA 13 FT TOTAL LENGTH | | | |
| | 20 | 1 | 1900996-005 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .50 DIA 3 FT TOTAL LENGTH | | | |
| | 21 | 1 | 1900996-006 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .75 DIA 3 FT TOTAL LENGTH | | | |
| 10 | 22 | 1 | 1016184-002 | TRANSITION, HARNESS, 2 FINGER (V) HEAT SHRINK | | | |
| 20 | 23 | 55 | | CONNECTION CONTACT, PIN | | | |
| 21 | 24 | AR | 1897147-106,-108,-112,-116 | CABLE CLAMP SLEEVE | | | |
| 10 | 25 | 1 | 1016282- | 22 | GROMMET, RUBBER | | |

| | | |
|--|-----------|---------------|
| MANHED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE-NONE | REV LTR | SHEET 6 OF 13 |

GJL

CABLE W-49

C

1900996

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|------|-----|--|----------------------|-----|------|--------|----------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| NUMBER | ITEM | NO. | | ITEM | NO. | | | ITEM | NO. | | |
| A | 1 | 1 | | P1-B | 19M | 23 | | E3 | 25M | | |
| A | 2 | 1 | | P1-F | 19M | 23 | | P3-12 | 19M | 17 | |
| A | 3 | 1 | | P1-G | 19M | 23 | | P3-13 | 19M | 17 | |
| A | 4 | 1 | | P1-H | 19M | 23 | | P3-91 | 19M | 17 | |
| A | 5 | 3 | | | 23Q | 200 | 9 10 5 | | 23Q | 200 | A 11 7A |
| | | | | | | A 11 | | | | | |
| A | 5A | 1 | | SHLD A5 | 25M | | | E1 | 25M | | |
| A | 5L | | | P1-M | 19M | 23 | | P3-108 | 19M | 17 | |
| A | 5R | | | P1-M | 19M | 23 | | P3-106 | 19M | 17 | |
| A | 6 | 3 | | | 23Q | 200 | 9 10 5 | | 23Q | 200 | A 11 7A |
| | | | | | | A 11 | | | | | |
| A | 6A | 1 | | SHLD A6 | 25M | | | E1 | 25M | | |
| A | 6L | | | P1-R | 19M | 23 | | P3-94 | 19M | 17 | |
| A | 6R | | | P1-P | 19M | 23 | | P3-93 | 19M | 17 | |
| A | 7 | 2 | | | 23Q | 200 | 7 8 5 | | 23Q | 200 | A 12 7A |
| | | | | | | A 11 | | | | | |
| A | 7A | 1 | | SHLD A7 | 25M | | | E1 | 25M | | |
| A | 7M | | | P1-S | 19M | 23 | | P3-10 | 19M | 17 | |

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHED
 SPACECRAFT
 CENTER
 HOUSTON, TEXAS

SIZE

A

1900996

SCALE-NONE

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SHEET 7 OF 13

GJL

CABLE W-49

C

1900996

| CONDUCTOR | | | | FROM | | | | TO | | | | TERMINATION | | | | |
|-------------------|----------|-----|----------------|--|----------|-----|----------------|--------------------|----------|-----|----------------|---------------|----------|-----|----------------|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | QTY | WIRE OR SHIELD | CIRCUIT POINT | ITEM NO. | QTY | WIRE OR SHIELD | CIRCUIT POINT | ITEM NO. | QTY | WIRE OR SHIELD | CIRCUIT POINT | ITEM NO. | QTY | WIRE OR SHIELD | |
| A | 8 | 2 | | | 23Q | 200 | 7 | 8 | 5 | | | | 23Q | 200 | A 12 | 7A |
| | | | | | | | | | | | | | | | | |
| A | 8A | 1 | | SHLD A8 | 25M | | | | E1 | | 25M | | | | | |
| A | 8M | | | P1-T | 19M | | 23 | | P3- 24 | | 19M | | 17 | | | |
| A | 9 | 3 | | | 28Q | 250 | 9 | 10 | 5 | | | | 28Q | 250 | A 11 | 7A |
| | | | | | | | | | | | | | | | | |
| A | 9A | 1 | | SHLD A9 | 25M | | | | E1 | | 25M | | | | | |
| A | 9L | | | P1-V | 19M | | 23 | | P3- 69 | | 19M | | 17 | | | |
| A | 9R | | | P1-U | 19M | | 23 | | P3- 68 | | 19M | | 17 | | | |
| A | 10 | 3 | | | 28Q | 250 | 9 | 10 | 5 | | | | 28Q | 250 | A 11 | 7A |
| | | | | | | | | | | | | | | | | |
| A | 10A | 1 | | SHLD A10 | 25M | | | | E2 | | 25M | | | | | |
| A | 10L | | | P1-B* | 19M | | 23 | | P2- 2 | | 19M | | 17 | | | |
| A | 10R | | | P1-A* | 19M | | 23 | | P2- 1 | | 19M | | 17 | | | |
| A | 11 | 3 | | | 28Q | 250 | 9 | 10 | 5 | | | | 28Q | 250 | A 11 | 7A |
| | | | | | | | | | | | | | | | | |
| A | 11A | 1 | | SHLD A11 | 25M | | | | E2 | | 25M | | | | | |
| A | 11L | | | P1-D* | 19M | | 23 | | P2- 15 | | 19M | | 17 | | | |
| | | | | | | | | | | | | | | | | |
| | | | | MANHED SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE A | | | | 1900996 | | | | |
| | | | | SCALE-NONE | | | | REV LTR | | | | C | | | | |
| | | | | SHEET | | | | 8 OF 1 | | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

GJL CABLE W-49 C 1900996

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---|-----------------------|---|-----------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. |
| A 11R | 1 | P1-C* | 19N 23 | P2-14 | 10N 17 |
| A 12 | 3 | | 280 250 9 10 5 | | 280 250 A 11 7A |
| A 12A | 1 | SHLD A12 | 25N | E2 | 25N |
| A 12L | | P1-F* | 19N 23 | P2-28 | 10N 17 |
| A 12R | | P1-E* | 19N 23 | P2-29 | 10N 17 |
| A 13 | 3 | | 330 300 9 10 5 | | 330 300 A 11 7A |
| A 13A | 1 | SHLD A13 | 25N | E2 | 25N |
| A 13L | | P1-H* | 19N 23 | P2-107 | 10N 17 |
| A 13R | | P1-G* | 19N 23 | P2-108 | 10N 17 |
| A 14 | 1 | P1-I* | 19N 23 | P2-9 | 10N 17 |
| A 15 | 1 | P1-J* | 19N 23 | P2-25 | 22N 17 |
| A 16 | 1 | P1-K* | 19N 23 | P2-79 | 22N 17 |
| A 17 | 1 | P1-L* | 19N 23 | P2-68 | 10N 17 |
| A 18 | 1 | P1-M* | 19N 23 | P2-69 | 10N 17 |
| A 19 | 1 | P1-N* | 19N 23 | P2-81 | 10N 17 |
| A 20 | 1 | P1-O* | 19N 23 | P2-46 | 10N 17 |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | HAWK SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR C SHEET 9 OF 13 | |

GJL CABLE W-49 C 1900996

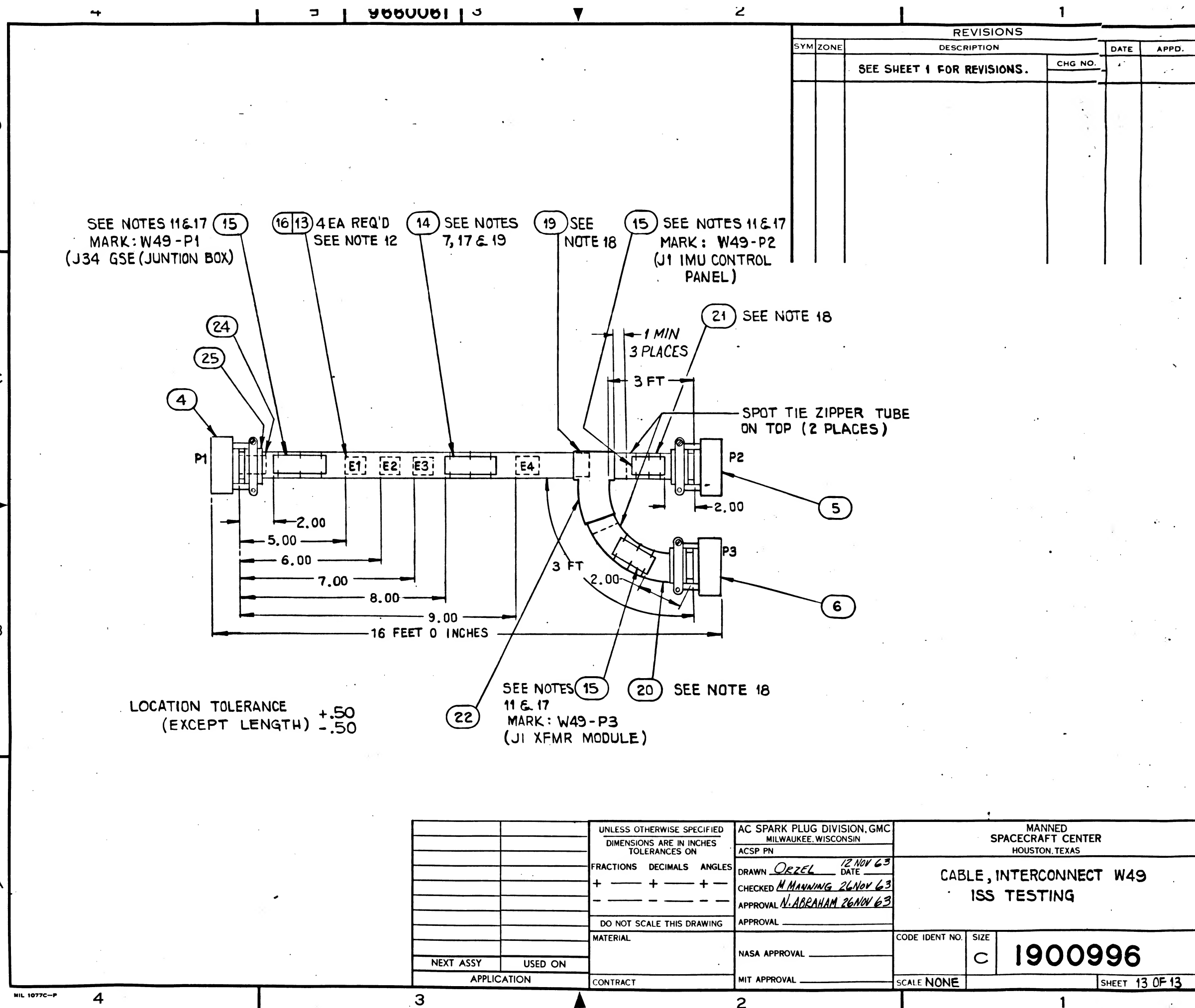
| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---|-----------------------|--|-----------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. |
| A 21 | 1 | P1-R* | 19N 23 | P2-12 | 10N 17 |
| A 22 | 1 | P1-S* | 19N 23 | P2-18 | 10N 17 |
| A 23 | 1 | P1-T* | 19N 23 | P2-6 | 10N 17 |
| A 24 | 1 | P1-U* | 19N 23 | P2-34 | 10N 17 |
| A 25 | 1 | P1-V* | 19N 23 | P2-93 | 10N 17 |
| A 26 | 1 | P1-K | 19N 23 | P2-78 | 10N 17 |
| A 27 | 2 | | 330 300 7 8 5 | | 330 300 A 12 7A |
| A 27A | 1 | SHLD A27 | 25N | E2 | 25N |
| A 27W | | P1-X* | 19N 23 | P2-104 | 10N 17 |
| A 28 | 1 | P1-Y* | 19N 23 | P2-56 | 10N 17 |
| A 29 | 2 | | 330 300 7 8 5 | | 330 300 A 12 7A |
| A 29A | 1 | SHLD A29 | 25N | E3 | 25N |
| A 29W | | P1-Z* | 19N 23 | P2-92 | 10N 17 |
| A 30 | 1 | P1-AA | 19N 23 | P2-35 | 10N 17 |
| A 31 | 1 | P1-BB | 19N 23 | P2-34 | 10N 17 |
| A 32 | 2 | | 330 300 7 8 5 | | 330 300 A 12 7A |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | HAWK SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR C SHEET 10 OF 13 | |

GJL CABLE W-49 C 1900996

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---|-----------------------|--|-----------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. |
| A 32A | 1 | SHLD A32 | 25N | E3 | 25N |
| A 32W | | P1-CC | 19N 23 | P2-105 | 10N 17 |
| A 33 | 1 | P1-DD | 19N 23 | P2-37 | 10N 17 |
| A 34 | 1 | P1-EE | 19N 23 | P2-23 | 10N 17 |
| A 35 | 2 | | 380 350 7 8 5 | | 380 350 A 12 7A |
| A 35A | 1 | SHLD A35 | 25N | E3 | 25N |
| A 35W | | P1-FF | 19N 23 | P2-94 | 10N 17 |
| A 36 | 2 | | 380 350 7 8 5 | | 380 350 A 12 7A |
| A 36A | 1 | SHLD A36 | 25N | E3 | 25N |
| A 36W | | P1-GG | 19N 23 | P2-22 | 10N 17 |
| A 37 | 1 | P1-HH | 19N 23 | P2-24 | 10N 17 |
| A 38 | 1 | E1 | 25N | E2 | 25N |
| A 39 | 1 | E2 | 25N | E3 | 25N |
| A 40 | 3 | | 380 350 5 10 5 | | 380 350 A 11 7A |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | HAWK SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR C SHEET 11 OF 13 | |

GJL CABLE W-49 C 1900996

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---|-----------------------|--|-----------------------|
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. | STRIP WIRE OR JACKET | TERMINATION SPEC. NO. |
| A 40A | 1 | SHLD A40 | 25N | E4 | 25N |
| A 40L | | P1-O | 19N 23 | P3-49 | 10N 17 |
| A 40R | | P1-C | 19N 23 | P3-48 | 10N 17 |
| A 41 | 2 | | 430 400 7 8 5 | | 430 400 A 12 7A |
| A 41A | 1 | SHLD A41 | 25N | E4 | 25N |
| A 41W | | P1-A | 19N 23 | P3-38 | 10N 17 |
| A 42 | 2 | | 430 400 7 8 5 | | 430 400 A 12 7A |
| A 42A | 1 | SHLD A42 | 25N | E4 | 25N |
| A 42W | | P1-E | 19N 23 | P3-39 | 10N 17 |
| A 43 | 1 | E3 | 25N | E4 | 25N |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | HAWK SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR D SHEET 12 OF 13 | |

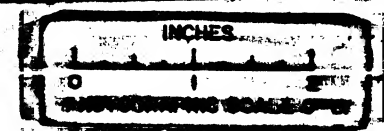


| | | | |
|-----------------|---|---|-------------------------|
| GJL | CABLE W-49 | C | 1900996 |
| PENNANT NOTE | GENERAL NOTES | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900996 |
| | | SCALE-NONE | REV LTR C SHEET 2 OF 13 |

| | | | |
|-----------------|--|---|-------------------------|
| GJL | CABLE W-49 | C | 1900996 |
| PENNANT NOTE | GENERAL NOTES | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 4. | | |
| 21 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY AND MAY BE CUT LENGTH WISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900996 |
| | | SCALE-NONE | REV LTR C SHEET 3 OF 13 |

| | | | | | | | |
|-------------|-------------|--|-------------------------------------|-------------------------------|----------|-------------|--|
| APPLICATION | | REVISIONS | | DATE | | APPROVAL | |
| NEXT ASSY | USED IN | SYM | DESCRIPTION | DATE | APPROVAL | | |
| 1901308 | 1900005-001 | A | CHANGE IN ACC. CHART WITH CM 193690 | 1 FEB 64 | JJJ | | |
| | | B | CHANGE IN ACC. CHART WITH CM 193725 | 4 FEB 64 | JJJ | | |
| | | C | CHANGE IN ACC. CHART WITH CM 194719 | 4 FEB 64 | JJJ | | |
| | | D | CHANGE IN ACC. CHART WITH CM 196123 | 3 APR 64 | BUL | | |
| | | E | ADDED CUSTOMER DATA (Y2-64) | 15 MAY 64 | FB CP | | |
| | | F | CHANGE IN ACC. CHART WITH CM 197541 | 28 MAY 64 | BK | | |
| | | G | CHANGE IN ACC. CHART WITH CM 197689 | 23 JUN 64 | JJJ | | |
| | | H | CHANGE IN ACC. CHART WITH CM 197760 | 16 JUL 64 | BK | | |
| | | J | CHANGE IN ACC. CHART WITH CM 199022 | 30 JUL 64 | JVP | | |
| | | FOR INFORMATION ONLY | | CLASS B RELEASE TDR No. 05653 | | DATE 1-7-64 | |
| | | CABLE, INTERCONNECT W49 | | ISS TESTING | | | |
| | | SPACECRAFT CENTER HOUSTON, TEXAS | | | | | |
| | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | | | | |
| | | ACSP PN | | | | | |
| | | DRAWN BY 12 NOV 63 | | | | | |
| | | CHECKED BY 26 NOV 63 | | | | | |
| | | APPROVAL BY 16 NOV 63 | | | | | |
| | | APPROVAL BY 16 NOV 63 | | | | | |
| | | NASA APPROVAL | | | | | |
| | | MT APPROVAL | | | | | |
| | | CONTRACT | | | | | |

| | | | |
|--|---------------|---|-------------------------|
| GJL | CABLE W-49 | C | 1900996 |
| PENNANT NOTE | GENERAL NOTES | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | |
| UNDER 1 INCH +.06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | |
| 1 INCH TO 6 INCHES +.50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | |
| OVER 6 FEET +2.00-.00 | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | 1900996 |
| | | SCALE-NONE | REV LTR C SHEET 4 OF 13 |

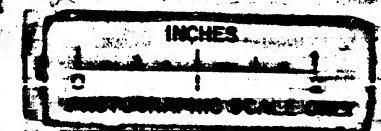


| GJL | | CABLE W-49 | | H | | 1900996 | |
|---------------------------|----------|---|---|---------|---------------|---------|--|
| PENNANT LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 18 AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | | |
| | 19 1 | 1900996-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE, .88 DIA 13 FT TOTAL LENGTH | | | | |
| | 20 1 | 1900996-005 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .50 DIA 3 FT TOTAL LENGTH | | | | |
| | 21 1 | 1900996-006 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .75 DIA 3 FT TOTAL LENGTH | | | | |
| 10 | 22 1 | 1016184-002 | TRANSITION, HARNESS, 2 FINGER (Y) HEAT SHRINK | | | | |
| 20 | 23 54 | | CONNECTION CONTACT, PIN | | | | |
| 21 | 24 AR | 1897147-106,-108,-112,-116 | CABLE CLAMP SLEEVE | | | | |
| 10 | 25 1 | 1016282- 22 | GROMMET, RUBBER | | | | |
| 10 | 26 2 | 1015902- 46 | TERMINAL LUG | | | | |
| | 27 3 | 1900996-007 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | | |
| | 28 1 | MS24056-2 | CONNECTOR | | | | |
| | 29 1 | MS24018-1 | CONNECTOR, HOOD | | | | |
| | 30 T | 1900996-008 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-005 30 INCHES TOTAL LENGTH | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 | | | |
| | | SCALE - NONE | REV LTR | X J | SHEET 6 OF 13 | | |

| GJL | | CABLE W-49 | | H | | 1900996 | | | |
|-------------------|----------|---|---------------|-------------------|---------------|----------------------|---------------|-------------------|---------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 1 | 1 | P1-B | 19N | 23 | | E3 | 25N | | |
| A 2 | 1 | P1-F | 19N | 23 | | P3- 12 | 10N | 17 | |
| A 3 | 1 | P1-G | 19N | 23 | | P3- 13 | 10N | 17 | |
| A 4 | 1 | P4- 2 | 25N | 26 | | P2- 91 | 10N | 17 | |
| A 5 | 3 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 5A | 1 | SHLD A5 | 25N | | | E1 | 25N | | |
| A 5L | | P1-N | 19N | 23 | | P3-108 | 10N | 17 | |
| A 5R | | P1-M | 19N | 23 | | P3- 81 | 10N | 17 | |
| A 6 | 3 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 6A | 1 | SHLD A6 | 25N | | | E1 | 25N | | |
| A 6L | | P1-R | 19N | 23 | | P3- 94 | 10N | 17 | |
| A 6R | | P1-P | 19N | 23 | | P3- 95 | 10N | 17 | |
| A 7 | | DELETED | | | | | | | |
| | | DELETED | | | | | | | |
| A 7A | | DELETED | | | | | | | |
| A 7W | | DELETED | | | | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 | | | | | |
| | | SCALE - NONE | REV LTR | H | SHEET 7 OF 13 | | | | |

| GJL | | CABLE W-49 | | H | | 1900996 | |
|---------------------------|----------|---|---|---------|---------------|---------|--|
| PENNANT LIST OF MATERIALS | | | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 1 1 | 1900996-001 | WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT 377 FT TOTAL LENGTH | | | | |
| | 2 1 | 1900996-002 | WIRE ND1002181 TYPE 1 CLASS 4 22AWG WHT JAKT WHT, 128 FT TOTAL LENGTH | | | | |
| | 3 1 | 1900996-003 | WIRE ND1002181 TYPE 2 CLASS 4 22AWG WHT JAKT WHT/RED, WHT/BLU 128 FT TOTAL LENGTH | | | | |
| 16 | 4 1 | MS3126F-22-55P (1897045-550) | CONNECTOR | | | | |
| 10 | 5 1 | 1010411- 1 | CONNECTOR | | | | |
| 10 | 6 1 | 1010607- 1 | CONNECTOR | | | | |
| 10 | 7 8 | 1000243- 3 | FERRULE, ELECT. COND | | | | |
| 10 | 8 8 | 1000242- 2 | FERRULE, ELECT. COND | | | | |
| 10 | 9 8 | 1000243- 8 | FERRULE, ELECT. COND | | | | |
| 10 | 10 8 | 1000242- 7 | FERRULE, ELECT. COND | | | | |
| 10 | 11 24 | 1010490-198 | INSULATION, SLEEVING, ELECT. | | | | |
| 10 | 12 8 | 1010490-200 | INSULATION, SLEEVING, ELECT. | | | | |
| 10 | 13 4 | 1010490-258 | INSULATION, SLEEVING, ELECT. | | | | |
| 10 | 14 1 | 1016128-011 | BAND-IDENTIFICATION | | | | |
| 10 | 15 3 | 1016128-041 | BAND-IDENTIFICATION | | | | |
| 10 | 16 4 | 1016006-002 | SPlice REDUCER | | | | |
| 10 | 17 220 | 1010464- 2 | CONNECTOR CONTACT SOCKET | | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 | | | |
| | | SCALE - NONE | REV LTR | H | SHEET 5 OF 13 | | |

| GJL | | CABLE W-49 | | C | | 1900996 | | | |
|-------------------|----------|---|---------------|-------------------|---------------|----------------------|---------------|-------------------|---------|
| CONDUCTOR | | FROM | | | | TO | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 8 | 2 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 12 7A |
| | | | | | A 11 | | | | |
| A 8A | 1 | SHLD A8 | 25N | | | E1 | 25N | | |
| A 8W | | P1-T | 19N | 23 | | P3- 24 | 10N | 17 | |
| A 9 | 3 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 9A | 1 | SHLD A9 | 25N | | | E1 | 25N | | |
| A 9L | | P1-V | 19N | 23 | | P3- 69 | 10N | 17 | |
| A 9R | | P1-U | 19N | 23 | | P3- 68 | 10N | 17 | |
| A 10 | 3 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 10A | 1 | SHLD A10 | 25N | | | E2 | 25N | | |
| A 10L | | P1-B* | 19N | 23 | | P2- 2 | 10N | 17 | |
| A 10R | | P1-A* | 19N | 23 | | P2- 1 | 10N | 17 | |
| A 11 | 3 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 11A | 1 | SHLD A11 | 25N | | | E2 | 25N | | |
| A 11L | | P1-D* | 19N | 23 | | P2- 15 | 10N | 17 | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 | | | | | |
| | | SCALE - NONE | REV LTR | C | SHEET 8 OF 13 | | | | |

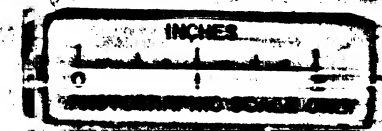


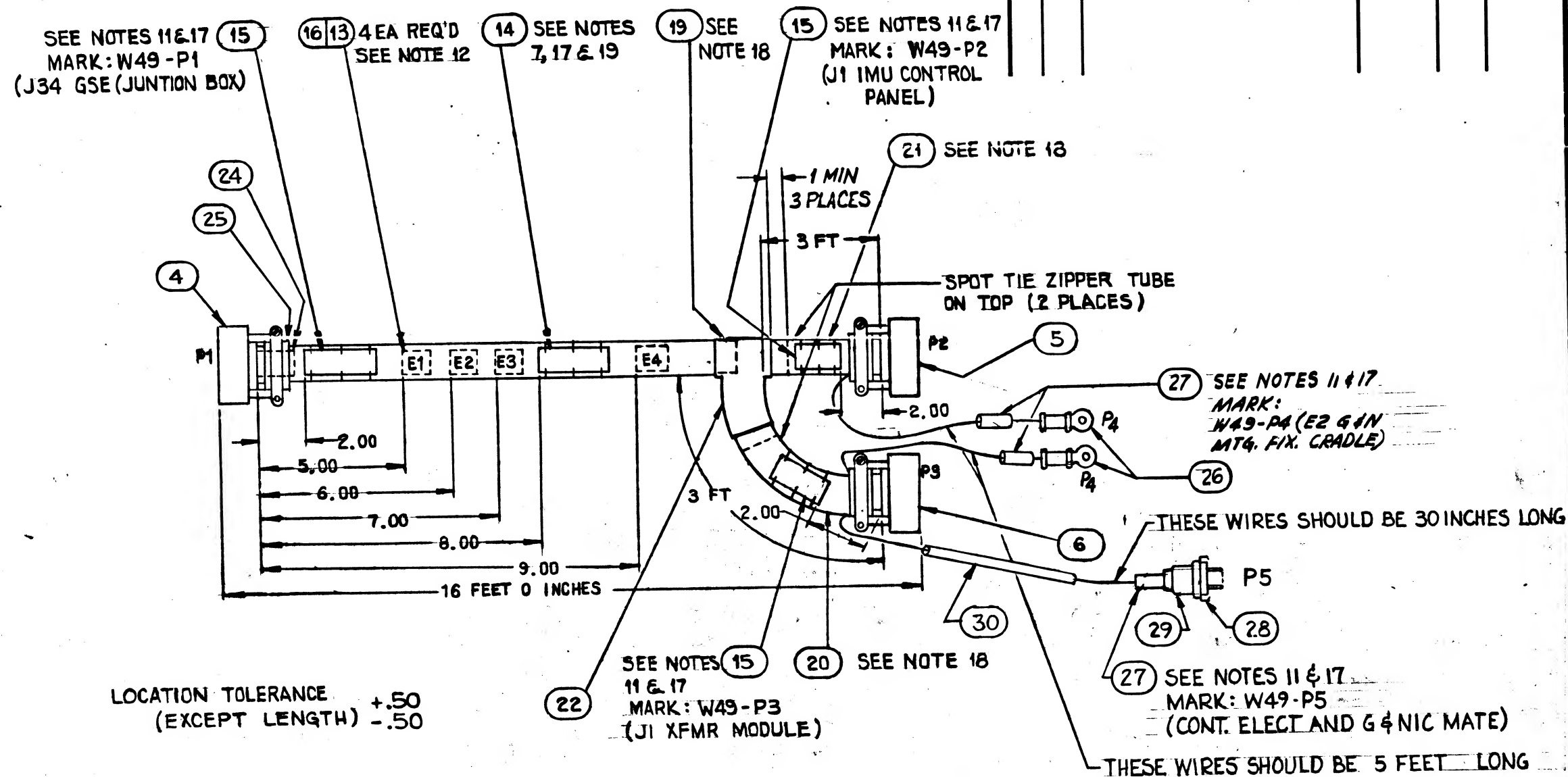
| GJL | | CABLE W-49 | | | | C | | 1900996 | | | | |
|---|---|---------------|----------|----------------------|-----|-------------------|--|----------------------|-----------|-------------------|----------------|--|
| CONDUCTOR | | | | FROM | | | | TO | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | |
| ITEM NO. | | CIRCUIT POINT | | STRIP WIRE OR JACKET | | ITEM NO. | | STRIP WIRE OR JACKET | | ITEM NO. | | |
| NUMBER | | | | | | | | | | | | |
| A 21 | 1 | | P1-R* | 19N | | 23 | | P2- 12 | 10N | 17 | | |
| A 22 | 1 | | P1-S* | 19N | | 23 | | P2- 18 | 10N | 17 | | |
| A 23 | 1 | | P1-T* | 19N | | 23 | | P2- 6 | 10N | 17 | | |
| A 24 | 1 | | P1-U* | 19N | | 23 | | P2- 34 | 10N | 17 | | |
| A 25 | 1 | | P1-V* | 19N | | 23 | | P2- 93 | 10N | 17 | | |
| A 26 | 1 | | P1-K | 19N | | 23 | | P2- 78 | 10N | 17 | | |
| A 27 | 2 | | | 330 | 300 | 7 8 | | | 330 | 300 | A 12 7A | |
| | | | | | | A 11 | | | | | | |
| A 27A | 1 | | SHLD A27 | 25N | | | | E2 | 25N | | | |
| A 27W | | | P1-X* | 19N | | 23 | | P2-104 | 10N | 17 | | |
| A 28 | 1 | | P1-Y* | 19N | | 23 | | P2- 56 | 10N | 17 | | |
| A 29 | 2 | | | 330N | 300 | 7 8 5 | | | 330 | 300 | A 12 7A | |
| | | | | | | A 11 | | | | | | |
| A 29A | 1 | | SHLD A29 | 25N | | | | E3 | 25N | | | |
| A 29W | | | P1-Z* | 19N | | 23 | | P2- 92 | 10N | 17 | | |
| A 30 | 1 | | P1-AA | 19N | | 23 | | P2- 35 | 10N | 17 | | |
| A 31 | 1 | | P1-BB | 19N | | 23 | | P2- 36 | 10N | 17 | | |
| A 32 | 2 | | | 330 | 300 | 7 8 5 | | | 330 | 300 | A 12 7A | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900996 | |
| | | | | | | | SCALE - NONE | | REV LTR C | | SHEET 10 OF 13 | |

| GJL | | | | | | | | | | CABLE W-49 | | | | | | | | | | C | | | | | | | | | | 1900996 | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|----------------------|--|--|--|----------|-------------------|--|--|--|-----|----------------------|------------|--|--------|--|-------------------|---------|--|-----|--|-----|--|------|--|----|--|---------|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | 1 | | STRIP WIRE OR JACKET | | | | | 1 | | | | | STRIP WIRE OR JACKET | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | CIRCUIT POINT | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32A | | | | 1 | | | | SHLD A32 | | | | | 25N | | | | E3 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32W | | | | | | | | P1-CC | | | | | 19N | | 23 | | P2-105 | | | | | 10N | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 33 | | | | 1 | | | | P1-DD | | | | | 19N | | 23 | | P2- 37 | | | | | 10N | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 34 | | | | 1 | | | | P1-EE | | | | | 19N | | 23 | | P2- 23 | | | | | 10N | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 35 | | | | 2 | | | | | | | | | 380 | | 350 7 8 5 | | | | | | | 380 | | 350 | | A 12 | | 7A | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 35A | | | | 1 | | | | SHLD A35 | | | | | 25N | | | | E3 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 35W | | | | | | | | P1-FF | | | | | 19N | | 23 | | P2- 94 | | | | | 10N | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 36 | | | | 2 | | | | | | | | | 380 | | 350 7 8 5 | | | | | | | 380 | | 350 | | A 12 | | 7A | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 36A | | | | 1 | | | | SHLD A36 | | | | | 25N | | | | E3 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 36W | | | | | | | | P1-GG | | | | | 19N | | 23 | | P2- 22 | | | | | 10N | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 37 | | | | 1 | | | | P1-HH | | | | | 19N | | 23 | | P2- 24 | | | | | 10N | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 38 | | | | 1 | | | | E1 | | | | | 25N | | | | E2 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 39 | | | | 1 | | | | E2 | | | | | 25N | | | | E3 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 40 | | | | 3 | | | | | | | | | 380 | | 350 9 10 5 | | | | | | | 380 | | 350 | | A 11 | | 7A | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> <div>2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE | | | | | | | | | | 1900996 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | C | | | | | | | | | | SHEET 11 OF 13 | | | | | | | | | |

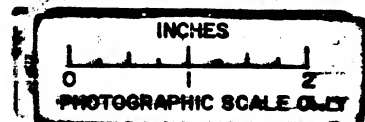
| GJL | | CABLE W-49 | | | | | | | | | | C | | 1900996 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------|--|----------------------|--|--|--|--|----------------------|--|--|---|--|--|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------|--|--|--|--|---------|--|--|--|--|------|--|--|--|--|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | STRIP WIRE OR JACKET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | ITEM NO. | | | | | ITEM NO. | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 11R | | | | P1-C* | | | | | 19N | | | | | 23 | | | | | P2- 14 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12 | | | | 3 | | | | | 280 | | | | | 250 | | | | | 9 10 | | | | | 5 | | | | | 280 | | | | | 250 | | | | | A 11 | | | | | 7A | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12A | | | | 1 | | | | | SHLD A12 | | | | | 25N | | | | | | | | | | E2 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12L | | | | | | | | | P1-F* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 28 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 12R | | | | | | | | | P1-E* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 29 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 13 | | | | 3 | | | | | 330 | | | | | 300 | | | | | 9 10 | | | | | 5 | | | | | 330 | | | | | 300 | | | | | A 11 | | | | | 7A | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 13A | | | | 1 | | | | | SHLD A13 | | | | | 25N | | | | | | | | | | E2 | | | | | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 13L | | | | | | | | | P1-H* | | | | | 19N | | | | | 23 | | | | | | | | | | P2-107 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 13R | | | | | | | | | P1-G* | | | | | 19N | | | | | 23 | | | | | | | | | | P2-108 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 14 | | | | 1 | | | | | P1-I* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 9 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 15 | | | | 1 | | | | | P1-J* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 25 | | | | | 22N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 16 | | | | 1 | | | | | P1-K* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 79 | | | | | 22N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 17 | | | | 1 | | | | | P1-J | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 68 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 18 | | | | 1 | | | | | P1-N* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 69 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 19 | | | | 1 | | | | | P1-P* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 81 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| A 20 | | | | 1 | | | | | P1-Q* | | | | | 19N | | | | | 23 | | | | | | | | | | P2- 46 | | | | | 10N | | | | | 17 | | | | | | | | | | | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | | | | | | | | | 1900996 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | C | | | | | | | | | | SHEET 9 OF 13 | | | | | | | | | | | | | | |

| GJL | | CABLE W-49 | | | | | | | | | | H | | 1900996 | | | | | | | | | | | |
|---|-----|------------|--|----------------------|-----|---------------|-----|-------------------|---|-----|--|--|--|----------------------|-----|---------------|------|-------------------|--|-----|--|--|--|--|--|
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | | | | |
| NUMBER | | ITEM NO. | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | NO. | | | | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | NO. | | | | | |
| A | 40A | 1 | | SHLD | A40 | 25N | | | | | | | | E4 | 25N | | | | | | | | | | |
| A | 40L | | | F1-D | | 19N | | 23 | | | | | | P3-49 | 10N | | 17 | | | | | | | | |
| A | 40R | | | P1-C | | 19N | | 23 | | | | | | P3-48 | 10N | | 17 | | | | | | | | |
| A | 41 | 2 | | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 12 | 7A | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | |
| A | 41A | 1 | | SHLD | A41 | 25N | | | | | | | | E4 | 25N | | | | | | | | | | |
| A | 41W | | | P1-A | | 19N | | 23 | | | | | | P3-38 | 10N | | 17 | | | | | | | | |
| A | 42 | 2 | | | | 430 | 400 | 7 | 8 | 5 | | | | | 430 | 400 | A 12 | 7A | | | | | | | |
| | | | | | | | | A 11 | | | | | | | | | | | | | | | | | |
| A | 42A | 1 | | SHLD | A42 | 25N | | | | | | | | E4 | 25N | | | | | | | | | | |
| A | 42W | | | P1-E | | 19N | | 23 | | | | | | P3-39 | 10N | | 17 | | | | | | | | |
| A | 43 | 1 | | E3 | | 25N | | | | | | | | E4 | 25N | | | | | | | | | | |
| A | 44 | 1 | | P4- 1 | | 25N | | | | | | | | P3- 1 | 10N | | 17 | | | | | | | | |
| A | 45 | 1 | | P1-W | | 19N | | 23 | | | | | | P3- 9 | 10N | | 17 | | | | | | | | |
| A | 46 | 1 | | P1-X | | 19N | | 23 | | | | | | P3- 8 | 10N | | 17 | | | | | | | | |
| A | 47 | 1 | | P5-D | | 25Y | | | | | | | | P3-106 | 10N | | 17 | | | | | | | | |
| A | 48 | 1 | | P5-C | | 25Y | | | | | | | | P3- 93 | 10N | | 17 | | | | | | | | |
| A | 49 | 1 | | P5-B | | 25Y | | | | | | | | P3- 10 | 10N | | 17 | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900996 | | | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR | | H | | SHEET 12 OF 13 | | | | | | | |



[illegible]

| | | | | | | | |
|-------------|--|---|--|--|--|---|----------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | FRACTIONS DECIMALS ANGLES | | ACSP PN | | CABLE, INTERCONNECT W49 ISS TESTING | |
| | | + + + | | DRAWN <u>ORZEL</u> DATE <u>12 NOV 63</u> | | | |
| | | - - - | | CHECKED <u>M. MANNING</u> <u>26 NOV 63</u> | | | |
| | | | | APPROVAL <u>N. ABRAHAM</u> <u>26 NOV 63</u> | | | |
| | | DO NOT SCALE THIS DRAWING | | APPROVAL <u>WELCH</u> <u>29/1/64</u> | | | |
| | | MATERIAL | | NASA APPROVAL <u>A.C. [Signature]</u> <u>9/11/64</u> | | CODE IDENT NO. | SIZE |
| NEXT ASSY | | USED ON | | MIT APPROVAL <u>L. H. [Signature]</u> <u>9/11/64</u> | | C | 1900996 |
| APPLICATION | | CONTRACT | | | | SCALE NONE | SHEET 13 OF 13 |



| | | | | |
|--|-------------|---|-----------|----------|
| APPLICATION | | REVISIONS | | |
| REV | SYN | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-411 | CHANGE IN ACCORDANCE WITH CM 193630 | 4 FEB 64 | J J J 64 |
| | | CHANGE IN ACCORDANCE WITH CM 193725 | 4 FEB 64 | J J J 64 |
| | | CHANGE IN ACCORDANCE WITH CM 194119 | 4 FEB 64 | J J J 64 |
| | | CHANGE IN ACCORDANCE WITH CM 196123 | 3 APR 64 | J J J 64 |
| | | ADDED CUSTOMER DATA (Y2-64) | | J J J 64 |
| | | CHANGE IN ACCORDANCE WITH CM 197689 | 19 MAY 64 | R B 64 |
| | | REVISED PER TDR 09717 | | |
| | | CHANGE IN ACCORDANCE WITH CM 197541 | 28 MAY 64 | B K 64 |
| | | CHANGE IN ACCORDANCE WITH CM 197689 | 23 JUN 64 | J J J 64 |
| | | CHANGE IN ACCORDANCE WITH CM 197760 | 16 JUL 64 | R J 64 |
| | | CHANGE IN ACCORDANCE WITH CM 199022 | 30 JUL 64 | J W P 64 |
| | | REVISED & UPGRADED TO CLASS A PER TDR 14941 | 31 DEC 64 | J J J 64 |
| | | | | CAT |
| CABLE, INTERCONNECT W49 ISS TESTING | | | | |
| CODE IDENT NO. | | SIZE | REV | |
| 1900996 | | A | K | |
| SCALE NONE | | SHEET 1 OF 13 | | |
| CONTRACT | | | | |
| AC SPARK PLUG DIVISION - GMC MILWAUKEE, WISCONSIN | | | | |
| ACSP PN | | | | |
| DATE 12 NOV 63 | | | | |
| CHECKED 26 NOV 63 | | | | |
| APPROVAL 26 NOV 63 | | | | |
| APPROVAL 26 NOV 63 | | | | |
| NASA APPROVAL 26 NOV 63 | | | | |
| MIT APPROVAL 26 NOV 63 | | | | |

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|-----------------|---|--|-----------|
| GJL | CABLE W-49 | C | 1900996 |
| PENNANT NOTE | GENERAL NOTES | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | SCALE-NONE | REV LTR C |
| | | SHEET 2 OF 13 | |

| | | | |
|-----------------|--|--|-----------|
| GJL | CABLE W-49 | C | 1900996 |
| PENNANT NOTE | GENERAL NOTES | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | |
| 17 | SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR. | | |
| 18 | SEAL ZIPPER TUBING PER ND1002193 | | |
| 19 | SERIALIZE PER ND1002023 | | |
| 20 | ITEM 23 FURNISHED WITH ITEM 4. | | |
| 21 | ITEM 24 SHALL BE SHORTENED WHEN NECESSARY AND MAY BE CUT LENGTH WISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 24 AS REQUIRED TO FIT. | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | SCALE-NONE | REV LTR C |
| | | SHEET 3 OF 13 | |

| | | | |
|--|---------------|--|-----------|
| GJL | CABLE W-49 | C | 1900996 |
| PENNANT NOTE | GENERAL NOTES | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | |
| TOLERANCE | | | |
| WIRE OR CABLE WIRE STRIP JACKET WIRE CUT SHIELD | | | |
| UNDER 1 INCH + .06-.00 +.03-.00 +.06-.06 +.06-.06 +.06-.06 | | | |
| 1 INCH TO 6 INCHES + .50-.00 +.06-.00 +.25-.25 +.25-.25 +.25-.25 | | | |
| 6 INCHES TO 6 FEET +1.00-.00 +.50-.50 +.50-.50 +.50-.50 | | | |
| OVER 6 FEET +2.00-.00 | | | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | SCALE-NONE | REV LTR C |
| | | SHEET 4 OF 13 | |

| | | | |
|-----------------|------------------------------|---|-----------|
| GJL | CABLE W-49 | K | 1900996 |
| PENNANT NOTE | LIST OF MATERIALS | | |
| ITEM QTY | PART NO | DESCRIPTION | |
| 1 1 | 1900996-001 | WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT 384 FT 6 INCHES TOTAL LENGTH | |
| 2 1 | 1900996-002 | WIRE ND1002181 TYPE 1 CLASS 4 22AWG WHT JAKT WHT, 128 FT TOTAL LENGTH | |
| 3 1 | 1900996-003 | WIRE ND1002181 TYPE 2 CLASS 4 22AWG WHT JAKT WHT/RED, WHT/BLU 128 FT TOTAL LENGTH | |
| 16 4 | MS3126F-22-55P (1897045-550) | CONNECTOR | |
| 10 5 | 1897173-001 | CONNECTOR | |
| 10 6 | 1897171-001 | CONNECTOR | |
| 10 7 | 1000243- 3 | FERRULE, ELECT. COND | |
| 10 8 | 1000242- 2 | FERRULE, ELECT. COND | |
| 10 9 | 1000243- 8 | FERRULE, ELECT. COND | |
| 10 10 | 1000242- 7 | FERRULE, ELECT. COND | |
| 10 11 | 1010490-198 | INSULATION, SLEEVING, ELECT. | |
| 10 12 | 1010490-200 | INSULATION, SLEEVING, ELECT. | |
| 10 13 | 1010490-258 | INSULATION, SLEEVING, ELECT. | |
| 10 14 | 1016128-011 | BAND-IDENTIFICATION | |
| 10 15 | 1016128-041 | BAND-IDENTIFICATION | |
| 10 16 | 1016004-002 | SPLICE REDUCER | |
| 10 17 | 1010738- 6 | CONNECTOR CONTACT SOCKET | |
| | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | SCALE-NONE | REV LTR K |
| | | SHEET 5 OF 13 | |

| | | | | | |
|---------|------|-------------------|----------------------------|--|---------|
| GJL | | CABLE W-49 | | H | 1900996 |
| PENNANT | | LIST OF MATERIALS | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | |
| | 18 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | |
| | 19 | 1 | 1900996-004 | ZIPPER TUBING ND1002155, TYPE 1, PLASTIC, FLEXIBLE, .88 DIA 13 FT TOTAL LENGTH | |
| | 20 | 1 | 1900996-005 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .50 DIA 3 FT TOTAL LENGTH | |
| | 21 | 1 | 1900996-006 | ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE, .75 DIA 3 FT TOTAL LENGTH | |
| 10 | 22 | 1 | 1016184-002 | TRANSITION, HARNESS, 2 FINGER (Y) HEAT SHRINK | |
| 20 | 23 | 54 | | CONNECTION CONTACT, PIN | |
| 21 | 24 | AR | 1897147-106,-108,-112,-116 | CABLE CLAMP SLEEVE | |
| 10 | 25 | 1 | 1016282-22 | GROMMET, RUBBER | |
| 10 | 26 | 2 | 1015902-46 | TERMINAL LUG | |
| | 27 | 3 | 1900996-007 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | |
| | 28 | 1 | MS24056-2 | CONNECTOR | |
| | 29 | 1 | MS24018-1 | CONNECTOR, HOOD | |
| | 30 | 1 | 1900996-008 | TUBING, MODIFIED POLYVINYL CHLORIDE FLEXIBLE, SHRINK-FIT PER 1016197-005 30 INCHES TOTAL LENGTH | |

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE-NONE | REV LTR | X J |
| | | SHEET 6 OF 13 |

| | | | | | | | | | | | |
|---|-----|----------------------|--------------------|----------|---|----------------------|--------------------|----------|-----------------------|--|--|
| GJL | | CABLE W-49 | | | | H | | 1900996 | | | |
| CONDUCTOR | | | FROM | | | | TO | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1-> | | CUT WIRE OR SHIELD | | TERMINATION SPEC. 1-> | | |
| ITEM NO. | | STRIP WIRE OR JACKET | | ITEM NO. | | STRIP WIRE OR JACKET | | ITEM NO. | | | |
| NUMBER | NO. | CIRCUIT POINT | CIRCUIT POINT | ITEM NO. | ITEM NO. | CIRCUIT POINT | CIRCUIT POINT | ITEM NO. | ITEM NO. | | |
| A | 1 | 1 | P1-B | 19N | 23 | E3 | 25N | | | | |
| A | 2 | 1 | P1-F | 19N | 23 | P3- 12 | 10N | 17 | | | |
| A | 3 | 1 | P1-G | 19N | 23 | P3- 13 | 10N | 17 | | | |
| A | 4 | 1 | P4- 2 | 25N | 26 | P2- 91 | 10N | 17 | | | |
| A | 5 | 3 | | 230 | 200 | 9 10 | 5 | 230 | 200 | | |
| | | | | | A 11 | | | A 11 | 7A | | |
| A | 5A | 1 | SHLD A5 | 25N | | E1 | 25N | | | | |
| A | 5L | | P1-N | 19N | 23 | P3-108 | 10N | 17 | | | |
| A | 5R | | P1-M | 19N | 23 | P3- 81 | 10N | 17 | | | |
| A | 6 | 3 | | 230 | 200 | 9 10 | 5 | 230 | 200 | | |
| | | | | | A 11 | | | A 11 | 7A | | |
| A | 6A | 1 | SHLD A6 | 25N | | E1 | 25N | | | | |
| A | 6L | | P1-R | 19N | 23 | P3- 94 | 10N | 17 | | | |
| A | 6R | | P1-P | 19N | 23 | P3- 95 | 10N | 17 | | | |
| A | 7 | | DELETED | | | | | | | | |
| | | | DELETED | | | | | | | | |
| A | 7A | | DELETED | | | | | | | | |
| A | 7M | | DELETED | | | | | | | | |
| 1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | | 1900996 | | |
| 2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | A | | A | | | | |
| | | | | | SCALE -NONE | | REV LTR | | H | | |
| | | | | | | | | | SHEET 7 OF 13 | | |

| GJL | | CABLE W-49 | | | | C | | 1900996 | | | |
|---|-----|------------|----------------------|-----|-------------------|------|---|---------|-------------------|------|---------------|
| CONDUCTOR | | | FROM | | | | TO | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | ITEM NO. | | STRIP WIRE OR JACKET | | ITEM NO. | | |
| NUMBER | NO. | | CIRCUIT POINT | | | | CIRCUIT POINT | | | | |
| A | 8 | 2 | | 230 | 200 | 7 8 | | 230 | 200 | A 12 | 7A |
| | | | | | | A 11 | | | | | |
| A | 8A | 1 | SHLD A8 | 25N | | | E1 | 25N | | | |
| A | 8W | | P1-T | 19N | 23 | | P3- 24 | 10N | 17 | | |
| A | 9 | 3 | | 280 | 250 | 9 10 | | 280 | 250 | A 11 | 7A |
| | | | | | | A 11 | | | | | |
| A | 9A | 1 | SHLD A9 | 25N | | | E1 | 25N | | | |
| A | 9L | | P1-V | 19N | 23 | | P3- 69 | 10N | 17 | | |
| A | 9R | | P1-U | 19N | 23 | | P3- 68 | 10N | 17 | | |
| A | 10 | 3 | | 280 | 250 | 9 10 | | 280 | 250 | A 11 | 7A |
| | | | | | | A 11 | | | | | |
| A | 10A | 1 | SHLD A10 | 25N | | | E2 | 25N | | | |
| A | 10L | | P1-B* | 19N | 23 | | P2- 2 | 10N | 17 | | |
| A | 10R | | P1-A* | 19N | 23 | | P2- 1 | 10N | 17 | | |
| A | 11 | 3 | | 280 | 250 | 9 10 | | 280 | 250 | A 11 | 7A |
| | | | | | | A 11 | | | | | |
| A | 11A | 1 | SHLD A11 | 25N | | | E2 | 25N | | | |
| A | 11L | | P1-D* | 19N | 23 | | P2- 15 | 10N | 17 | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | MANNE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | | |
| | | | | | | | A | | 1900996 | | |
| SCALE - NONE | | | | | | | REV LTR | | C | | SHEET 8 OF 13 |

| GJL | | CABLE W-49 | | | | | | | | | | C | | 1900996 | |
|---|-----|------------|----------------------|--|-----|-------------------|------|---|----------------------|-----------|-----|-------------------|------|---------------|--|
| CONDUCTOR | | | FROM | | | | | | TO | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OF SHIELD | | | TERMINATION SPEC. | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | ITEM NO. | | | STRIP WIRE OR JACKET | | | ITEM NO. | | | |
| NUMBER | NO. | | CIRCUIT POINT | | | ITEM NO. | | | CIRCUIT POINT | | | ITEM NO. | | | |
| A | 11R | | P1-L* | | 19N | 23 | | | P2- 14 | | 10N | 17 | | | |
| A | 12 | 3 | | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 11 | 7A | |
| | | | | | | A 11 | | | | | | | | | |
| A | 12A | 1 | SHLD A12 | | 25N | | | | E2 | | 25N | | | | |
| A | 12L | | P1-F* | | 19N | 23 | | | P2- 28 | | 10N | 17 | | | |
| A | 12R | | P1-E* | | 19N | 23 | | | P2- 29 | | 10N | 17 | | | |
| A | 13 | 3 | | | 330 | 300 | 9 10 | 5 | | | 330 | 300 | A 11 | 7A | |
| | | | | | | A 11 | | | | | | | | | |
| A | 13A | 1 | SHLD A13 | | 25N | | | | E2 | | 25N | | | | |
| A | 13L | | P1-H* | | 19N | 23 | | | P2-107 | | 10N | 17 | | | |
| A | 13R | | P1-G* | | 19N | 23 | | | P2-108 | | 10N | 17 | | | |
| A | 14 | 1 | P1-I* | | 19N | 23 | | | P2- 9 | | 10N | 17 | | | |
| A | 15 | 1 | P1-J* | | 19N | 23 | | | P2- 25 | | 22N | 17 | | | |
| A | 16 | 1 | P1-K* | | 19N | 23 | | | P2- 79 | | 22N | 17 | | | |
| A | 17 | 1 | P1-J | | 19N | 23 | | | P2- 68 | | 13N | 17 | | | |
| A | 18 | 1 | P1-N* | | 19N | 23 | | | P2- 69 | | 10N | 17 | | | |
| A | 19 | 1 | P1-P* | | 19N | 23 | | | P2- 81 | | 10N | 17 | | | |
| A | 20 | 1 | P1-Q* | | 19N | 23 | | | P2- 46 | | 10N | 17 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | SIZE A | | 1900996 | | | |
| SCALE-NONE | | | | | | | | | | REV LTR | | C | | SHEET 9 OF 13 | |

GJL

CABLE W-69

C

1900996

| CONDUCTOR | | | FROM | | | | | TO | | | | |
|-------------------|----------|---|----------------------|------|-------------------|-------|----------|----------------------|-----|-------------------|------|----------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | NO. |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | 3 | 1 | 2 | | STRIP WIRE OR JACKET | 3 | 1 | 2 | |
| | | | CIRCUIT POINT | | | | ITEM NO. | | | | | ITEM NO. |
| A 21 | 1 | | P1-R* | 19N | | 23 | | P2- 12 | 10N | | 17 | |
| A 22 | 1 | | P1-S* | 19N | | 23 | | P2- 18 | 10N | | 17 | |
| A 23 | 1 | | P1-T* | 19N | | 23 | | P2- 6 | 10N | | 17 | |
| A 24 | 1 | | P1-U* | 19N | | 23 | | P2- 34 | 10N | | 17 | |
| A 25 | 1 | | P1-V* | 19N | | 23 | | P2- 93 | 10N | | 17 | |
| A 26 | 1 | | P1-K | 19N | | 23 | | P2- 78 | 10N | | 17 | |
| A 27 | 2 | | | 330 | 300 | 7 8 | | | 330 | 300 | A 12 | 7A |
| | | | | | | A 11 | | | | | | |
| A 27A | 1 | | SHLD A27 | 25N | | | | E2 | 25N | | | |
| A 27W | | | P1-X* | 19N | | 23 | | P2-104 | 10N | | 17 | |
| A 28 | 1 | | P1-Y* | 19N | | 23 | | P2- 56 | 10N | | 17 | |
| A 29 | 2 | | | 330N | 300 | 7 8 5 | | | 330 | 300 | A 12 | 7A |
| | | | | | | A 11 | | | | | | |
| A 29A | 1 | | SHLD A29 | 25N | | | | E3 | 25N | | | |
| A 29W | | | P1-Z* | 19N | | 23 | | P2- 92 | 10N | | 17 | |
| A 30 | 1 | | P1-AA | 19N | | 23 | | P2- 35 | 10N | | 17 | |
| A 31 | 1 | | P1-BB | 19N | | 23 | | P2- 36 | 10N | | 17 | |
| A 32 | 2 | | | 330 | 300 | 7 8 5 | | | 330 | 300 | A 12 | 7A |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900996

SCALE - NONE

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SHEET 10 OF 13

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CABLE W-49

C

1900996

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------|--|--|--|--|--|--|--|--|-----|---|----|---|--|--|--|--|--|---|--------|-----|----|-----|-----|------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | SPEC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. | | | | | | | | | | NO. | | | | | | | | | | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32A | 1 | SHLD A32 | | | | | | | | 25N | | | | | | | | | | E3 | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 32W | | P1-CC | | | | | | | | 19N | 23 | | | | | | | | | | P2-105 | 10N | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 33 | 1 | P1-DD | | | | | | | | 19N | 23 | | | | | | | | | | P2- 37 | 10N | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 34 | 1 | P1-EE | | | | | | | | 19N | 23 | | | | | | | | | | P2- 23 | 10N | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 35 | 2 | | | | | | | | | 380 | 350 | 7 | 8 | 5 | | | | | | | | | | 380 | 350 | A 12 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 35A | 1 | SHLD A35 | | | | | | | | 25N | | | | | | | | | | E3 | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 35W | | P1-FF | | | | | | | | 19N | 23 | | | | | | | | | | P2- 94 | 10N | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 36 | 2 | | | | | | | | | 380 | 350 | 7 | 8 | 5 | | | | | | | | | | 380 | 350 | A 12 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 36A | 1 | SHLD A36 | | | | | | | | 25N | | | | | | | | | | E3 | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 36W | | P1-GG | | | | | | | | 19N | 23 | | | | | | | | | | P2- 22 | 10N | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 37 | 1 | P1-HH | | | | | | | | 19N | 23 | | | | | | | | | | P2- 24 | 10N | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 38 | 1 | E1 | | | | | | | | 25N | | | | | | | | | | E2 | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 39 | 1 | E2 | | | | | | | | 25N | | | | | | | | | | E3 | 25N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 40 | 3 | | | | | | | | | 380 | 350 | 9 | 10 | 5 | | | | | | | | | | 380 | 350 | A 11 | 7A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER</div> | | | | | | | | | | <div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | | | | | | | <div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</div> | | | | | | | | | | <div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>SIZE</div> | | | | | | | | | | <div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>A</div> <div>1900996</div> | | | | | | | | | |
| SCALE - NONE | | | | | | | | | | REV LTR | | | | | | | | | | C | | | | | | | | | | SHEET 11 OF 13 | | | | | | | | | | | | | | | | | | | |

GJL

CABLE W-49

H

1900996

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|----------------------|----------|------------------|-------|----------------------|----------|------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC | | CUT WIRE OR SHIELD | | TERMINATION SPEC | |
| | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | ITEM NO. | ITEM NO. | NO. | CIRCUIT POINT | ITEM NO. | ITEM NO. | NO. |
| A 40A | 1 | SHLD A40 | 25N | | | E4 | 25N | | |
| A 40L | | P1-D | 19N | 23 | | P3-49 | 10N | 17 | |
| A 40R | | P1-C | 19N | 23 | | P3-48 | 10N | 17 | |
| A 41 | 2 | | 430 | 400 | 7 8 5 | | 430 | 400 | A 12 7A |
| | | | | A 11 | | | | | |
| A 41A | 1 | SHLD A41 | 25N | | | E4 | 25N | | |
| A 41W | | P1-A | 19N | 23 | | P3-38 | 10N | 17 | |
| A 42 | 2 | | 430 | 400 | 7 8 5 | | 430 | 400 | A 12 7A |
| | | | | A 11 | | | | | |
| A 42A | 1 | SHLD A42 | 25N | | | E4 | 25N | | |
| A 42W | | P1-E | 19N | 23 | | P3-39 | 10N | 17 | |
| A 43 | 1 | E3 | 25N | | | E4 | 25N | | |
| A 44 | 1 | P4- 1 | 25N | | | P3- 1 | 10N | 17 | |
| A 45 | 1 | P1-W | 19N | 23 | | P3- 9 | 10N | 17 | |
| A 46 | 1 | P1-X | 19N | 23 | | P3- 8 | 10N | 17 | |
| A 47 | 1 | P5-D | 25Y | | | P3-106 | 10N | 17 | |
| A 48 | 1 | P5-C | 25Y | | | P3- 93 | 10N | 17 | |
| A 49 | 1 | P5-B | 25Y | | | P3- 10 | 10N | 17 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE

A

1900996

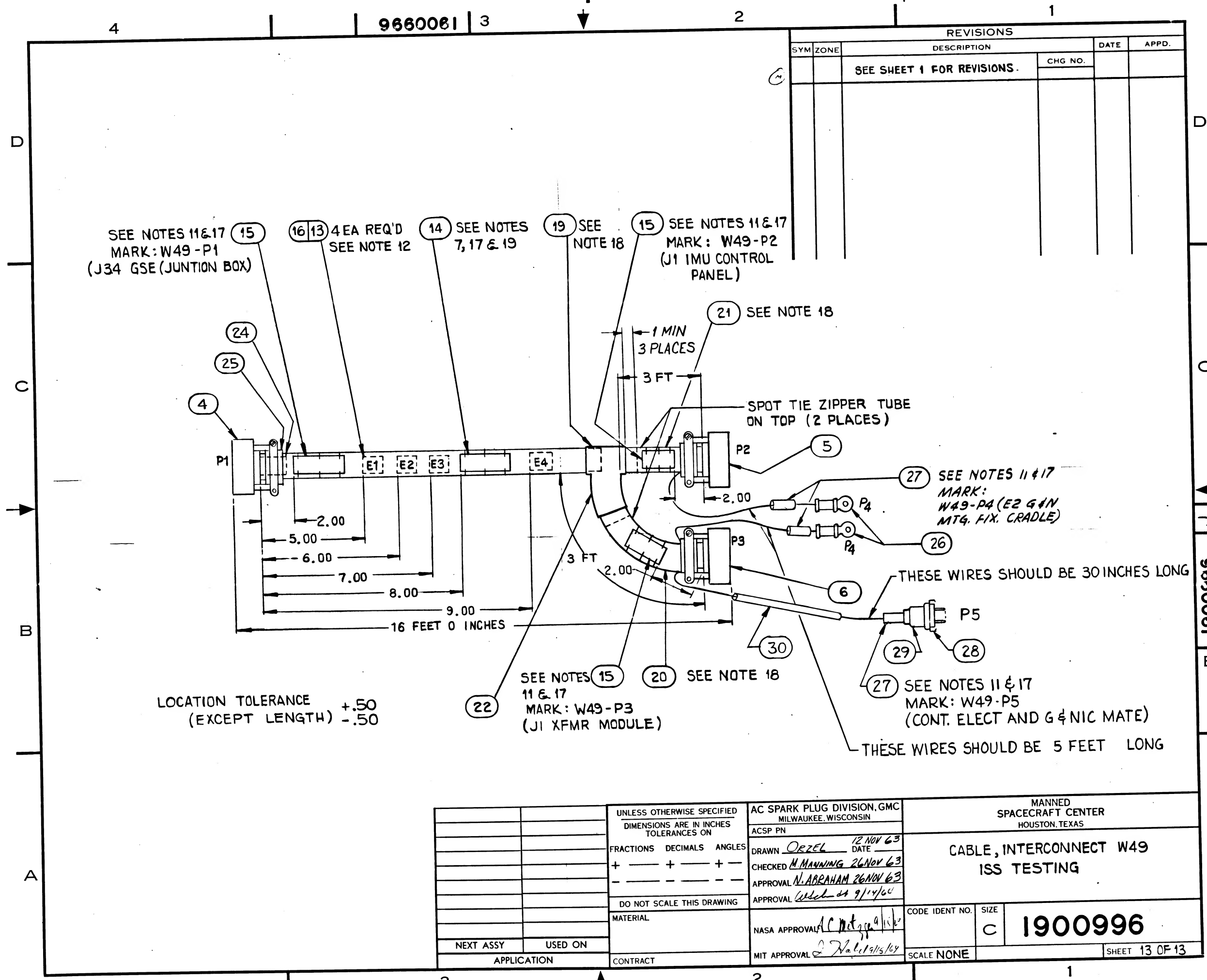
SCALE - NONE

REV LTR

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SHEET 12 OF 13

MIL-STD-2000 2-48 WIA



| | | | | | |
|---|----------|---|--|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| FRACTIONS | DECIMALS | ANGLES | ACSP PN | CABLE, INTERCONNECT W49 ISS TESTING | |
| + | + | + | DRAWN <u>ORZEL</u> DATE <u>12 NOV 63</u> | CODE IDENT NO. SIZE C 1900996 | |
| - | - | - | CHECKED <u>N. MANNING</u> 26 NOV 63 | | |
| DO NOT SCALE THIS DRAWING | | | APPROVAL <u>N. ABRAHAM</u> 26 NOV 63 | | |
| MATERIAL | | | APPROVAL <u>W. H. H. H.</u> 9/14/64 | SHEET 13 OF 13 | |
| NEXT ASSY | USED ON | CONTRACT | NASA APPROVAL <u>AC 102 9/11/63</u> | SCALE NONE | |
| APPLICATION | | | MIT APPROVAL <u>2. H. 11/15/63</u> | | |

| | | | | | |
|-------------------------------|-------------|-----------|---|-----------|----------|
| APPLICATION | | REVISIONS | | | |
| NEXT ASSY | USED ON | SYM | DESCRIPTION | DATE | APPROVAL |
| 1901308 | 1900005-011 | A | CHANGE IN ACCORDANCE WITH CM 193630 | 4 FEB 64 | JJJ |
| | | B | CHANGE IN ACCORDANCE WITH CM 183723 | 4 FEB 64 | JJJ |
| | | C | CHANGE IN ACCORDANCE WITH CM 194719 | 4 FEB 64 | JJJ |
| | | D | CHANGE IN ACCORDANCE WITH CM 196123 | 3 APR 64 | JJJ |
| | | | ADDED CUSTOMER DATA (Y2-64) | | |
| | | E | CHANGE IN ACCORDANCE WITH CM 196207 | 15 MAY 64 | RBP |
| | | | REVISED PER TOR 09777 | | |
| | | F | CHANGE IN ACCORDANCE WITH CM 197541 | 28 MAY 64 | BK |
| | | | TORR 10688 | | |
| | | G | CHANGE IN ACCORDANCE WITH CM 197689 | 23 JUN 64 | JJJ |
| | | | TORR 10688 | | |
| | | H | CHANGE IN ACCORDANCE WITH CM 197760 | 16 JUL 64 | RBP |
| | | | TORR 10688 | | |
| | | J | CHANGE IN ACCORDANCE WITH CM 199022 | 30 JUL 64 | JJJ |
| | | | TORR 10688 | | |
| | | K | REVISED E UPGRADED TO CLASS A PER TOR 14941 | 21 DEC 64 | JJJ |
| | | | TORR 10688 | | |
| | | L | REPLACED WITH CHANGE BY REV M | 27 JUN 65 | JJJ |
| | | | TORR 10688 | | |
| REPLACED WITH CHANGE BY REV M | | | | | |
| AC SPARK PLUG DIVISION, GMC | | | | | |
| MILWAUKEE, WISCONSIN | | | | | |
| MANNED | | | | | |
| SPACECRAFT CENTER | | | | | |
| HOUSTON, TEXAS | | | | | |
| CABLE, INTERCONNECT W49 | | | | | |
| ISS TESTING | | | | | |
| CODE IDENT NO. | | SIZE | REV | | |
| | | A | 1900996 | | |
| SCALE | | NONE | SHEET 1 OF 13 | | |
| NASA APPROVAL | | | | | |
| MIT APPROVAL | | | | | |
| CONTRACT | | | | | |

GENERAL NOTES

NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | + |
| SHEET 2 OF 12 | | |

MIL 2004 4-63

GENERAL NOTES

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 17, MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.
- 20 ITEM 23 FURNISHED WITH ITEM 4.

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | + |
| SHEET 3 OF 12 | | |

MIL 2004 4-63

| APPLICATION | | REVISIONS | | DATE | APPROVAL |
|-------------|------------|-----------|-------------|------|----------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION | | |
| 1901308 | 190005-011 | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05653 DATE 1/7/69

| | | | | |
|-----------|------------|-----|----------|----------|
| REV SHEET | REV STATUS | REV | DATE | APPROVAL |
| 1 | + | 1 | 12/11/62 | |
| 2 | + | 2 | 12/11/62 | |
| 3 | + | 3 | 12/11/62 | |
| 4 | + | 4 | 12/11/62 | |
| 5 | + | 5 | 12/11/62 | |
| 6 | + | 6 | 12/11/62 | |
| 7 | + | 7 | 12/11/62 | |
| 8 | + | 8 | 12/11/62 | |
| 9 | + | 9 | 12/11/62 | |
| 10 | + | 10 | 12/11/62 | |
| 11 | + | 11 | 12/11/62 | |
| 12 | + | 12 | 12/11/62 | |

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN 12 Nov 63 DATE 26 Nov 63
CHECKED 12 Nov 63 APPROVAL 12 Nov 63
APPROVAL 12 Nov 63 APPROVAL 12 Nov 63

CABLE, INTERCONNECT WAS
ISS TESTING

CODE IDENT NO. 1900996 SIZE A REV +

SCALE NONE SHEET 1 OF 12

GENERAL NOTES

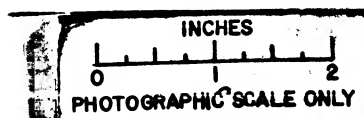
TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR
WIRE OR CABLE, STRIP
WIRE, STRIP JACKET, CUT
WIRE OR CUT SHIELD

| | WIRE OR CABLE | TOLERANCE | | WIRE | CUT SHIELD |
|--------------------|------------------|-----------|-----------|-----------|---------------|
| | | WIRE | JACKET | | |
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | + |
| SHEET 4 OF 12 | | |

MIL 2004 4-63



| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|-------------|------|-------|-------------|--|
| 10 | 17 | 216 | 1010464-2 | CONNECTOR CONTACT SOCKET |
| | 18 | AR | MIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| | 19 | 1 | 1900996-004 | ZIPPER TUBING ND 1002155, TYPE 1, PLASTIC, FLEXIBLE, 5/8 DIA. 13 FT. TOTAL LENGTH. |
| | 20 | 1 | 1900996-005 | ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC, FLEXIBLE, 3/8 DIA. 3 FT. TOTAL LENGTH. |
| | 21 | 1 | 1900996-006 | ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC, FLEXIBLE, 1/2 DIA. 3 FT. TOTAL LENGTH. |
| | 22 | 1 | 1016184-002 | TRANSITION, HARNESS, 2 FINGER (Y) HEAT SHRINK |
| 20 | 23 | 55 | | CONNECTION CONTACT, PIN |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | SHEET 6 OF 12 |

| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
|-------------|------|-------|----------------|---|
| | 1 | 1 | 1900996-001 | WIRE ND 1002181 TYPE 1 CLASS 1 22 AWG WHT 345 FT TOTAL LENGTH |
| | 2 | 1 | 1900996-002 | WIRE ND 1002181 TYPE 1 CLASS 4 22 AWG WHT JAKT WHT, 96 FT. TOTAL LENGTH. |
| | 3 | 1 | 1900996-003 | WIRE ND 1002181 TYPE 2 CLASS 4 22 AWG WHT JAKT WHT/RED, WHT/BLU 112 FT TOTAL LENGTH |
| 16 | 4 | 1 | MS3126F-22-55P | (1897045-550) CONNECTOR |
| 10,16 | 5 | 1 | 1010411-1 | CONNECTOR |
| 10,16 | 6 | 1 | 1010607-1 | CONNECTOR |
| 10 | 7 | 7 | 1000243-3 | FERRULE, ELECT. COND. |
| 10 | 8 | 7 | 1000242-2 | FERRULE, ELECT. COND. |
| 10 | 9 | 7 | 1000243-8 | FERRULE, ELECT. COND. |
| 10 | 10 | 7 | 1000242-7 | FERRULE, ELECT. COND. |
| 10 | 11 | 21 | 1010490-198 | INSULATION, SLEEVING, ELECT. |
| 10 | 12 | 7 | 1010490-200 | INSULATION, SLEEVING, ELECT. |
| 10 | 13 | 3 | 1010490-258 | INSULATION, SLEEVING, ELECT. |
| 10 | 14 | 1 | 1016128-011 | BAND IDENTIFICATION |
| 10 | 15 | 3 | 1016128-041 | BAND IDENTIFICATION |
| 10 | 16 | 3 | 1016006-002 | SPLICE REDUCER |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | SHEET 5 OF 12 |

GJL CABLE W-49 + 1900996

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|----------------------|---------------|-------------------|--------|----------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 1 | 1 | P1-B | 22N | 23 | | E3 | 37N | | |
| A 2 | 1 | P1-F | 22N | 23 | | P3- 12 | 22N | 17 | |
| A 3 | 1 | P1-G | 22N | 23 | | P3- 13 | 22N | 17 | |
| A 4 | 1 | P1-H | 22N | 23 | | P3- 91 | 22N | 17 | |
| A 5 | 3 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 5A | 1 | SHLD A5 | 37N | | | E1 | 37N | | |
| A 5L | | P1-N | 22N | 23 | | P3-108 | 22N | 17 | |
| A 5R | | P1-M | 22N | 23 | | P3-106 | 22N | 17 | |
| A 6 | 3 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 11 7A |
| | | | | | A 11 | | | | |
| A 6A | 1 | SHLD A6 | 37N | | | E1 | 37N | | |
| A 6L | | P1-R | 22N | 23 | | P3-107 | 22N | 17 | |
| A 6R | | P1-P | 22N | 23 | | P3- 93 | 22N | 17 | |
| A 7 | 2 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 12 7A |
| | | | | | A 11 | | | | |
| A 7A | 1 | SHLD A7 | 37N | | | E1 | 37N | | |
| A 7W | | P1-S | 22N | 23 | | P3- 10 | 22N | 17 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

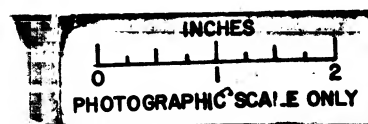
| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | SHEET 7 OF 12 |

GJL CABLE W-49 + 1900996

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|----------------------|---------------|-------------------|--------|----------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | |
| A 8 | 2 | | 230 | 200 | 7 8 5 | | 230 | 200 | A 12 7A |
| | | | | | A 11 | | | | |
| A 8A | 1 | SHLD A8 | 37N | | | E1 | 37N | | |
| A 8W | | P1-T | 22N | 23 | | P3- 24 | 22N | 17 | |
| A 9 | 3 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 9A | 1 | SHLD A9 | 37N | | | E1 | 37N | | |
| A 9L | | P1-V | 22N | 23 | | P3- 68 | 22N | 17 | |
| A 9R | | P1-U | 22N | 23 | | P3- 69 | 22N | 17 | |
| A 10 | 3 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 11 7A |
| | | | | | A 11 | | | | |
| A 10A | 1 | SHLD A10 | 37N | | | E2 | 37N | | |
| A 10L | | P1-B* | 22N | 23 | | P2- 2 | 22N | 17 | |
| A 10R | | P1-A* | 22N | 23 | | P2- 1 | 22N | 17 | |
| A 11 | 3 | | 280 | 250 | A 9 5 | | 280 | 250 | A 11 7A |
| | | | | | 10 11 | | | | |
| A 11A | 1 | SHLD A11 | 37N | | | E2 | 37N | | |
| A 11L | | P1-D* | 22N | 23 | | P2- 15 | 22N | 17 | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

| | | |
|--|-----------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900996 |
| SCALE - NONE | REV LTR | SHEET 8 OF 12 |



| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 21 | 1 | P1-R* | 22N | 23 | | P2- 12 | 22N | 17 | |
| A 22 | 1 | P1-S* | 22N | 23 | | P2- 18 | 22N | 17 | |
| A 23 | 1 | P1-T* | 22N | 23 | | P2- 6 | 22N | 17 | |
| A 24 | 1 | P1-U* | 22N | 23 | | P2- 34 | 22N | 17 | |
| A 25 | 1 | P1-V* | 22N | 23 | | P2- 93 | 22N | 17 | |
| A 26 | 1 | P1-W* | 22N | 23 | | P2- 78 | 22N | 17 | |
| A 27 | 2 | | 330 | 300 | 7 8 | | 330 | 300 | A 12 7A |
| | | | | A 11 | | | | | |
| A 27A | 1 | SHLD A27 | 37N | | | E2 | 37N | | |
| A 27W | | P1-X* | 22N | 23 | | P2-104 | 22N | 17 | |
| A 28 | 1 | P1-Y* | 22N | 23 | | P2- 56 | 22N | 17 | |
| A 29 | 2 | | 330N | 300 | A 7 5 | | 330 | 300 | A 12 7A |
| | | | | 8 11 | | | | | |
| A 29A | 1 | SHLD A29 | 37N | | | E3 | 37N | | |
| A 29W | | P1-Z* | 22N | 23 | | P2- 92 | 22N | 17 | |
| A 30 | 1 | P1-AA | 22N | 23 | | P2- 35 | 22N | 17 | |
| A 31 | 1 | P1-BB | 22N | 23 | | P2- 36 | 22N | 17 | |
| A 32 | 2 | | 330 | 300 | 7 8 5 | | 330 | 300 | A 12 7A |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR + SHEET 10 OF 12 | | | |

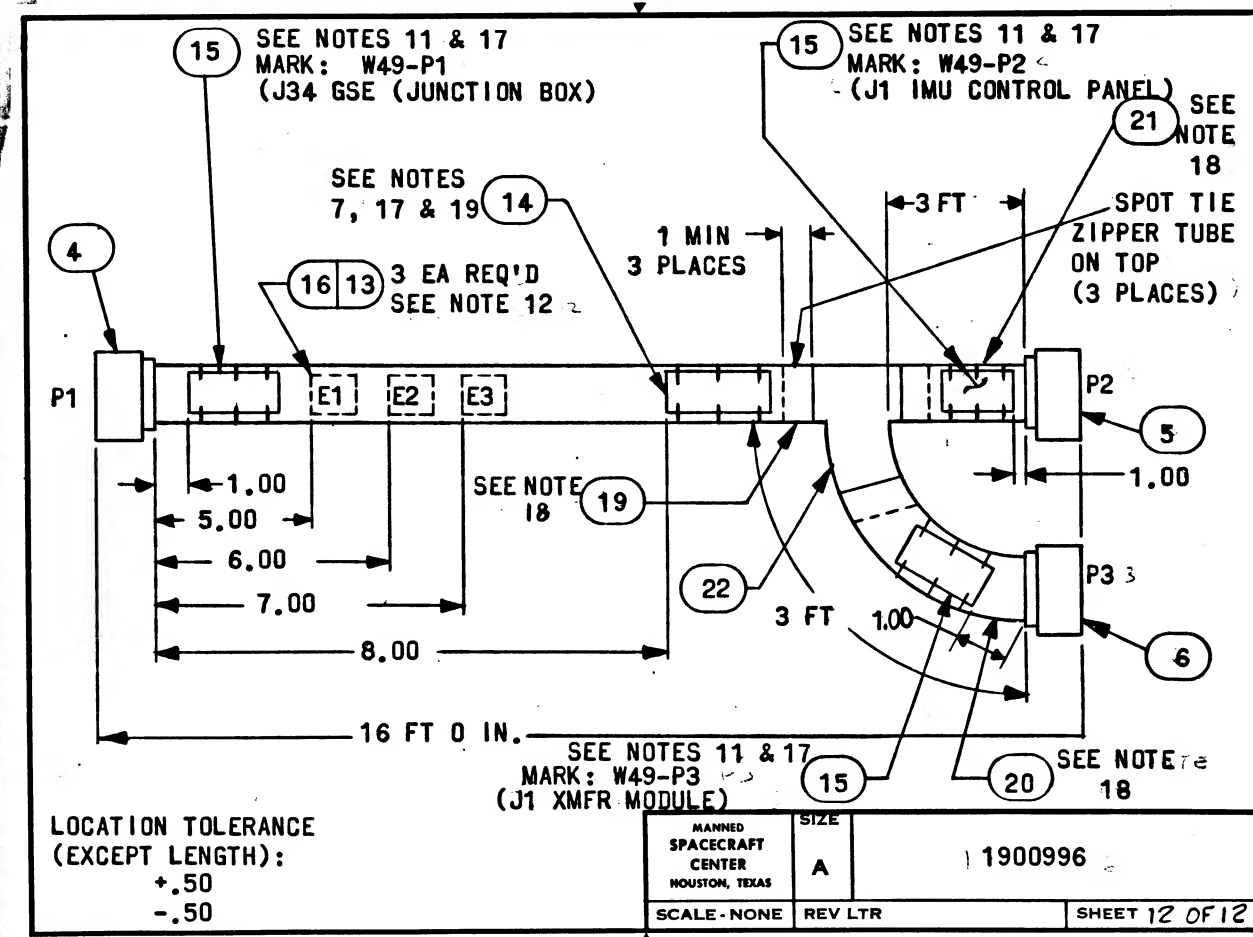
MIL 2085 - 4-63 WIR

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|-------|---|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 32A | 1 | SHLD A32 | 37N | | | E3 | 37N | | |
| A 32W | | P1-CC | 22N | 23 | | P2-105 | 22N | 17 | |
| A 33 | 1 | P1-DD | 22N | 23 | | P2- 37 | 22N | 17 | |
| A 34 | 1 | P1-EE | 22N | 23 | | P2- 23 | 22N | 17 | |
| A 35 | 2 | | 380 | 350 | 7 8 5 | | 380 | 350 | A 12 7A |
| | | | | A 11 | | | | | |
| A 35A | 1 | SHLD A35 | 37N | | | E3 | 37N | | |
| A 35W | | P1-FF | 22N | 23 | | P2- 94 | 22N | 17 | |
| A 36 | 2 | | 380 | 350 | 7 8 5 | | 380 | 350 | A 12 7A |
| | | | | A 11 | | | | | |
| A 36A | 1 | SHLD A36 | 37N | | | E3 | 37N | | |
| A 36W | | P1-GG | 22N | 23 | | P2- 22 | 22N | 17 | |
| A 37 | 1 | P1-HH | 22N | 23 | | P2- 24 | N | 17 | |
| A 38 | 1 | E1 | 37N | | | E2 | 37N | | |
| A 39 | 1 | E2 | 37N | | | E3 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR + SHEET 11 OF 12 | | | |

MIL 2085 - 4-63 WIR

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------------|--------|--|---------------|-------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 11R | | P1-C* | 24N | 23 | | P2- 14 | 22N | 17 | |
| A 12 | 3 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 11 7A |
| | | | | A 11 | | | | | |
| A 12A | 1 | SHLD A12 | 37N | | | E2 | 37N | | |
| A 12L | | P1-F* | 22N | 23 | | P2- 28 | 22N | 17 | |
| A 12R | | P1-E* | 22N | 23 | | P2- 29 | 22N | 17 | |
| A 13 | 3 | | 330 | 300 | 9 10 5 | | 330 | 300 | A 11 7A |
| | | | | A 11 | | | | | |
| A 13A | 1 | SHLD A13 | 37N | | | E2 | 37N | | |
| A 13L | | P1-H* | 22N | 23 | | P2-107 | 22N | 17 | |
| A 13R | | P1-G* | 22N | 23 | | P2-108 | 22N | 17 | |
| A 14 | 1 | P1-I* | 22N | 23 | | P2- 9 | 22N | 17 | |
| A 15 | 1 | P1-J* | 22N | 23 | | P2- 25 | 22N | 17 | |
| A 16 | 1 | P1-K* | 22N | 23 | | P2- 79 | 22N | 17 | |
| A 17 | 1 | P1-M* | 22N | 23 | | P2- 68 | 22N | 17 | |
| A 18 | 1 | P1-N* | 22N | 23 | | P2- 69 | 22N | 17 | |
| A 19 | 1 | P1-P* | 22N | 23 | | P2- 81 | 22N | 17 | |
| A 20 | 1 | P1-Q* | 22N | 23 | | P2- 46 | 22N | 17 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR + SHEET 9 OF 12 | | | |

MIL 2085 - 4-63 WIR



FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 05653 DATE 1/7/64

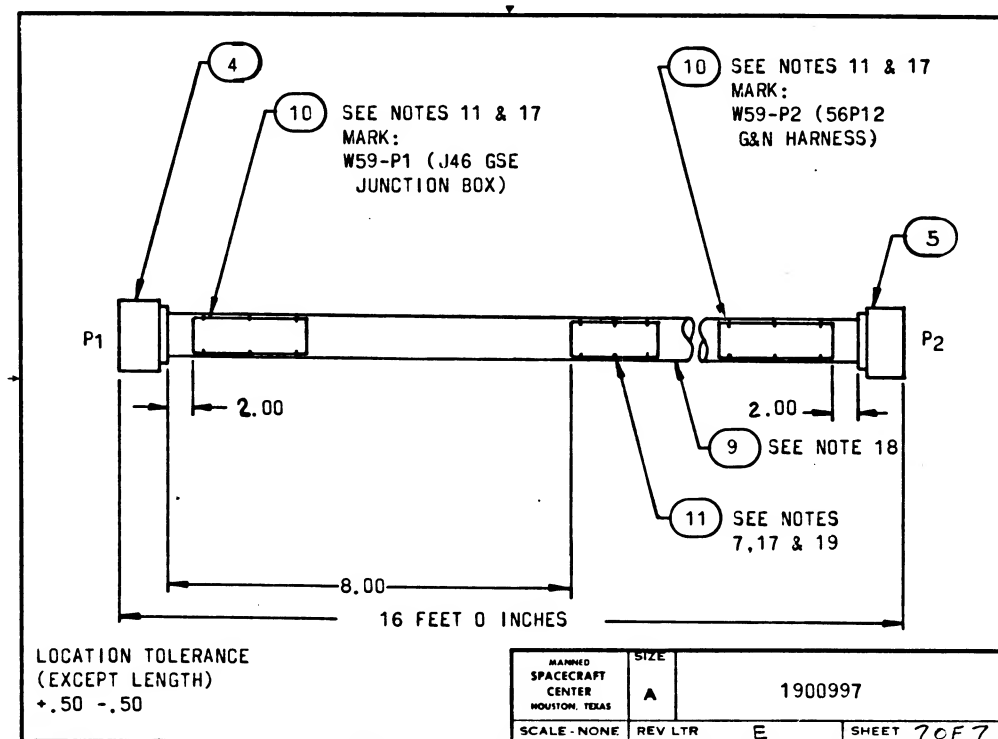
| | | |
|---|-----------|--------------|
| MANIP SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1980997 |
| SCALE: NONE | REV LTR | SHEET 2 OF 2 |

| | | |
|--|-----------|--------------|
| NAME SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900797 |
| SCALE - NONE | REV LTR A | SHEET 1 OF 7 |

| | | |
|---|---------------|--------------|
| MANNO SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR A | SHEET 4 OF 7 |

| | | | | | | | |
|---|------|-------------------|------------------------------|--|---|---------|--|
| GJJ | | CABLE W-59 | | E | | 1900997 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | | |
| | 1 | 1 | 1900997-001 | WIRE, ND1002181 TYPE 1, CLASS 1, 12AWG, WHT, 112 FT 0 IN. TOTAL LENGTH | | | |
| | 2 | 1 | 1900997-002 | WIRE, ND1002181 TYPE 1, CLASS 1, 14AWG, WHT, 32 FT 0 IN. TOTAL LENGTH | | | |
| | 3 | 1 | 1900997-003 | WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHT, 32 FT 0 IN. TOTAL LENGTH | | | |
| | 4 | 1 | MS3106R-36-9PW (1897126-091) | CONNECTOR, PLUG, ELEC. | | | |
| 23 | 5 | 1 | 1016181-002 | CONNECTOR, PLUG, ELEC | | | |
| | 6 | AR | QQ-S-571 | SOLDER SN60 (ES-2175 ALLOY 1) | | | |
| | 7 | AR | QQ-S-571 | FLUX TYPE AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) | | | |
| | 8 | AR | MIL-T-713 | LACING TAPE, TYPE P CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| | 9 | 1 | 1900997-004 | ZIPPER TUBING, ND1002195 TYPE 1 PLASTIC, FLEXIBLE, 3/4 DIA X 16 FT 0 IN. TOT. LG | | | |
| 10 | 10 | 2 | 1016128-011 | IDENTIFICATION BAND | | | |
| 10 | 11 | 1 | 1016128-041 | IDENTIFICATION BAND | | | |
| 20 | 12 | 4 | | CONNECTOR CONTACTS, SOCKET NO. 16 | | | |
| 21 | 13 | 10 | | CONNECTOR CONTACTS, SOCKET NO. 12 | | | |
| | 14 | | | DELETED (1016237-280) | | | |
| | 15 | | | DELETED (1016237-360) | | | |
| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | | | SIZE | A | | |
| SCALE - NONE | | | | REV LTR | E | | |
| | | | | SHEET | | 5 OF 7 | |

| GJJ | | CABLE W-59 | | C | | 1900997 | |
|-------------------|------|--|-------------|---------------------|-------------|----------|--|
| CONDUCTOR | | FROM | | TO | | | |
| INDIVIDUAL LENGTH | ITEM | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION | ITEM NO. | |
| NUMBER | NO. | STEP WIRE OR JACKET | SPEC. 1 | STEP WIRE OR JACKET | SPEC. 1 | | |
| A 1 | 1 | P1-D | 25Y | P2-M | 25Y | 12 | |
| A 2 | 1 | P1-I | 37Y | P2-B | 25Y | 13 | |
| A 3 | 1 | P1-J | 37Y | P2-C | 25Y | 14 | |
| A 4 | 2 | P1-K | 37Y | P2-H | 25Y | 15 | |
| A 5 | 2 | P1-M | 37Y | P2-A | 25Y | 16 | |
| A 6 | 1 | P1-S | 37Y | P2-D | 25Y | 17 | |
| A 7 | 1 | P1-T | 37Y | P2-E | 25Y | 18 | |
| A 8 | 1 | P1-H | 25Y | P2-F | 25Y | 19 | |
| A 9 | 1 | P1-U | 37Y | P2-G | 25Y | 20 | |
| A 10 | 1 | P1-V | 37Y | P2-J | 25Y | 21 | |
| A 11 | 2 | P1-X | 37Y | P2-L | 25Y | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE | A | | |
| | | SCALE - NONE | | REV LTR | E | | |
| | | | | SHEET | | 6 OF 7 | |



GENERAL NOTES

NOTES

- 1 SEE CONDUCTOR CHART
- 2 SEE CONDUCTOR CHART
- 3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- 5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
- 6 SPIRALLING OF THE MARKING IS ALLOWED.
- 7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS BLACK.
- 8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- 9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- 10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- 11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | |
|--|-----------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR + | SHEET 2 OF 7 |

GENERAL NOTES

NOTES

- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
- 16 SOLDER PER MIL-STD-440 USING ITEM 6 AND ITEM 7.
- 17 SECURE TO CABLE USING ITEM 8. MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND 1002153.
- 19 SERIALIZE PER ND 1002023.
- 20 ITEM 12 FURNISHED WITH ITEM 5
- 21 ITEM 13 FURNISHED WITH ITEM 5
- 22 ASSEMBLE CONTACTS TO ALL CONNECTOR GROMMET HOLES.

| | | |
|--|-----------|--------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR + | SHEET 3 of 7 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05553 DATE 1/17/64

| APPLICATION | | REVISIONS | |
|-------------|-------------|-----------|-------------|
| NEXT ASSY | USED ON | SYM | DESCRIPTION |
| 1901308 | 1900005-011 | | |

| REV | SHEET | REV STATUS | REV | DESCRIPTION |
|-----|-------|------------|-----|-------------|
| 1 | 1 | + | 1 | + |
| 2 | 2 | + | 2 | + |
| 3 | 3 | + | 3 | + |
| 4 | 4 | + | 4 | + |
| 5 | 5 | + | 5 | + |
| 6 | 6 | + | 6 | + |
| 7 | 7 | + | 7 | + |

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE INTERCONNECT W59
G&N TESTING

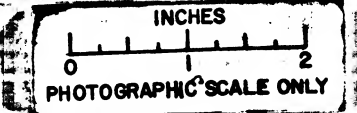
| | | | | |
|--------------|-----------|-------------------|---------|--------------|
| REV + | SIZE A | CODE IDENT NO. | 1900997 | SHEET 1 OF 7 |
| SCALE - NONE | REV LTR + | CONTRACT NAS9-497 | | |

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|---------------|----------|-------------|----------|
| | WIRE OR CABLE | STRIP WIRE | JACKET | CUT WIRE | SHIELD |
| UNDER 1 INCH | + .06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | +.50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR + | SHEET 4 of 7 |



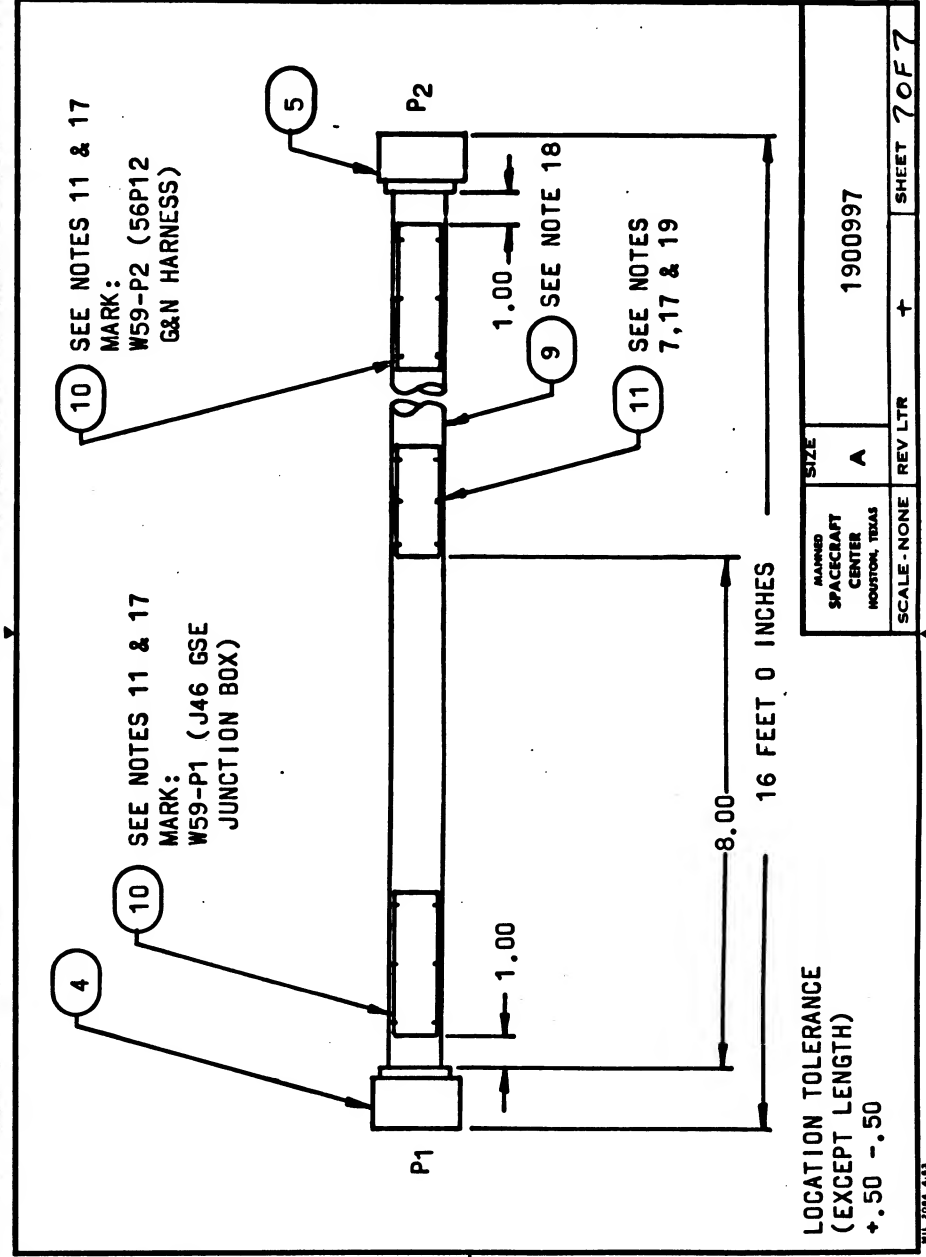
| LIST OF MATERIAL | | | DESCRIPTION | |
|------------------|------|-------|----------------|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | |
| | 1 | 1 | 1900997-1 | WIRE, ND 1002181 TYPE 1, CLASS 1, 12 AWG, WHT, 112 FT-0 IN. TOTAL LENGTH |
| | 2 | 1 | 1900997-2 | WIRE, ND 1002181 TYPE 1, CLASS 1, 14 AWG, WHT, 32 FT-0 IN. TOTAL LENGTH |
| | 3 | 1 | 1900997-3 | WIRE, ND 1002181 TYPE 1, CLASS 1, 16 AWG, WHT, 16 FT-0 IN. TOTAL LENGTH |
| | 4 | 1 | MS3106R-36-9PW | (1897126-091) CONNECTOR, PLUG, ELEC. |
| 22, 10 | 5 | 1 | 1016181-002 | CONNECTOR, PLUG, ELEC |
| | 6 | AR | QQ-S-571 | SOLDER SN60 (ES2175 ALLOY 1) |
| | 7 | AR | QQ-S-571 | FLUX TYPE AR (ES2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798) |
| | 8 | AR | MIL-T-713 | LACING TAPE, TYPE P CLASS 2, BLACK (ES-2732 NO. 18) |
| | 9 | 1 | 1900997-4 | ZIPPER TUBING, ND 1002155 TYPE 1 PLASTIC, FLEXIBLE, 3/4 DIA X 16 FT-0IN. TOT. LENGTH |
| | 10 | 2 | 1016128-011 | IDENTIFICATION BAND |
| 10 | 11 | 1 | 1016128-041 | IDENTIFICATION BAND |
| 20 | 12 | 4 | | CONNECTOR CONTACTS, SOCKET NO. 16 |
| 21 | 13 | 10 | | CONNECTOR CONTACTS, SOCKET NO. 12 |

| | | |
|---|-----------|--------------|
| MAILED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR + | SHEET 5 of 7 |

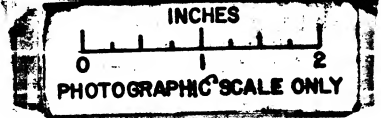
| CABLE W-59 | | | | | | | | | |
|------------|----------|-------------------|--------------------|----------------------|---------------|-------------------|----------|-----------------|--|
| CONDUCTOR | | | FROM | | | TO | | | |
| NUMBER | ITEM NO. | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | STRIP WIRE OR JACKET | CIRCUIT POINT | TERMINATION SPEC. | ITEM NO. | TERMINATION NO. | |
| A 1 | 3 | | P1-D | 25N | | P2-M | 12 | | |
| A 2 | 1 | | P1-I | 37N | | P2-B | 13 | | |
| A 3 | 1 | | P1-J | 37N | | P2-C | 13 | | |
| A 4 | 2 | | P1-K | 37N | | P2-H | 13 | | |
| A 5 | 2 | | P1-M | 37N | | P2-A | 13 | | |
| A 6 | 1 | | P1-S | 37N | | P2-D | 13 | | |
| A 7 | 1 | | P1-T | 37N | | P2-E | 13 | | |
| A 8 | 1 | | P1-H | 25N | | P2-F | 13 | | |
| A 9 | 1 | | P1-U | 37N | | P2-G | 13 | | |
| A 10 | 1 | | P1-V | 37N | | P2-J | 13 | | |

| | | |
|---|-----------|--------------|
| MAILED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR + | SHEET 6 of 7 |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.



| | | |
|---|-----------|--------------|
| MAILED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900997 |
| SCALE - NONE | REV LTR + | SHEET 7 of 7 |



GJK CABLE W-58 B 1900998

PENNANT GENERAL NOTES

NOTE

- SEE CONDUCTOR CHART, PENNANT NOTE 1.
- SEE CONDUCTOR CHART, PENNANT NOTE 2.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
- SPIKALLING OF THE MARKING IS ALLOWED.
- IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE.
- Y OR N IN TINNED COLUMN INDICATES YES OR NO.
- A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE. HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH. COLOR BLACK PER ND1002019.
- MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH. COLOR BLACK. PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

| | | |
|--|-----------|---------------|
| MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR B | SHEET 2 OF 20 |

GJK CABLE W-58 B 1900998

PENNANT GENERAL NOTES

NOTE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE CUT | SHIELD |
|--|------------------|-----------|-----------------|-------------|-----------|
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | |
|--|-----------|---------------|
| MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR B | SHEET 4 OF 20 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05653 DATE 12/14

| APPLICATION | USED ON | DATE | APPROVAL |
|----------------------|------------|----------|----------|
| NEXT ASSY 1911208 | 190005-011 | 1 FEB 64 | 66 |

| REVISIONS | SYN | DESCRIPTION | DATE | APPROVAL |
|-----------|-----|-------------------------------------|-----------|----------|
| A | 1 | CHANGE IN ACCORDANCE WITH CM10377 | 1 FEB 64 | 66 |
| B | 2 | CHANGE IN ACCORDANCE WITH CM195032 | 3 MAR 64 | 66 |
| C | 3 | CHANGE IN ACCORDANCE WITH CM 200712 | 2 APR 64 | 66 |
| D | 4 | REVISED CUSTOMER DATA (U2-64) | 27 MAY 64 | 66 |
| | | CHANGE IN ACCORDANCE WITH CM 176300 | 10 JUN 64 | 66 |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DATA WEISBERT 11-NOV-63

CHUCK BERNARD 2-NOV-63

APPROVAL 28-NOV-63

APPROVAL 14-DEC-63

NASA APPROVAL 11-NOV-63

MIT APPROVAL 11-NOV-63

CONTRACT

SCALE

REV D

SIZE A

1900998

SHEET 1 OF 20

GJK CABLE W-58 B 1900998

PENNANT GENERAL NOTES

NOTE

- A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY OF THE WIRE MARKER SLEEVE.
- THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L.
R - WHITE WITH RED TRACER OR WHITE WITH LETTER R.
Y - WHITE WITH YELLOW TRACER
- ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- SECURE TO CABLE USING ITEM 22. MARKING TO READ AWAY FROM CONNECTOR.
- SEAL ZIPPER TUBING PER ND1002153
- SERIALIZE PER ND1002023
- ITEM 27 FURNISHED WITH ITEM 6
- ITEM 28 FURNISHED WITH ITEM 7
- ITEM 30 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 30 AS REQUIRED TO FIT.

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| MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR B | SHEET 3 OF 20 |

| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | |
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| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | | | | | | | | | | | |
| STEP WIRE OR JACKET | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | TERMINATION SPEC. | | | | | | | | | |
| NUMBER | ITEM NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | |
| A | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 2A | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 2L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 3A | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 3M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 4 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 4A | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 4M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 5 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 6 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1. THE STD. CONDUCTOR TERMINATION FIGURES ARE PER

2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE - NONE | REV LTR B | SHEET 7 OF 20 |

| CONDUCTOR | | FROM | | | | TO | | | |
|-------------------|----------|---------------------|---------------|-------------------|-----|---------------------|---------------|-------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 7A | 1 | SHLD A7 | 37M | | | E1 | 37M | | |
| A 7L | | P1-J | 22M | 27 | | P3- 12 | 22M | 22 | |
| A 7R | | P1-H | 22M | 27 | | P3- 11 | 22M | 22 | |
| A 8 | 5 | | | A 29 | | | | A 29 | |
| A 8L | | P1-L | 22M | 27 | | P3- 40 | 22M | 22 | |
| A 8R | | P1-K | 22M | 27 | | P3- 41 | 22M | 22 | |
| A 9 | 1 | P1-M | 22M | 27 | | P3- 43 | 22M | 22 | |
| A 10 | 1 | P1-P | 22M | 27 | | P3- 71 | 22M | 22 | |
| A 11 | 3 | | 230 | 200 11 12 | 5 | | 230 | 200 A 14 | 7A |
| | | | | A 14 | | | | | |
| A 11A | 1 | SHLD A11 | 37M | | | E1 | 37M | | |
| A 11L | | P1-S | 22M | 27 | | P3- 53 | 22M | 22 | |
| A 11R | | P1-R | 22M | 27 | | P3- 62 | 22M | 22 | |
| A 12 | 9 | | 230 | 200 11 12 | 5 | | 230 | 200 A 14 | 7A |
| | | | | A 14 | | | | | |
| A 12A | 1 | SHLD A12 | 37M | | | E1 | 37M | | |
| A 12L | | P1-U | 22M | 27 | | P3- 52 | 22M | 22 | |
| A 12R | | P1-T | 22M | 27 | | P3- 61 | 22M | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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| MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE: NONE REV: LTR 8 SHEET 8 OF 2 | | |

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| GJK | | | | | | | | | | CABLE W-58 | | | | | | | | | | B | | | | | | | | | | 1900998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | | | | | | | | CUT WIRE OR SHIELD | | | | | | | | | | TERMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | STRIP WIRE OR JACKET | | | | | | | | | | SPEC. 1 | | | | | | | | | | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER | | | | | | | | | | CIRCUIT POINT | | | | | | | | | | ITEM NO. | | | | | | | | | | ITEM NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 13 | | | | | | | | | | P1-V | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 1 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 14 | | | | | | | | | | P1-W | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 60 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 15 | | | | | | | | | | P1-X | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 2 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 16 | | | | | | | | | | P1-Y | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 96 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 17 | | | | | | | | | | P1-Z | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 95 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 18 | | | | | | | | | | P1-A* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | E4 | | | | | | | | | | 37M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 19 | | | | | | | | | | P1-B* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 93 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 20 | | | | | | | | | | P1-C* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 51 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 21 | | | | | | | | | | P1-D* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3-106 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 22 | | | | | | | | | | P1-E* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 77 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 23 | | | | | | | | | | P1-F* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 65 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 24 | | | | | | | | | | 2 | | | | | | | | | | 280 | | | | | | | | | | 250 | | | | | | | | | | 9 10 | | | | | | | | | | 5 | | | | | | | | | | 280 | | | | | | | | | | 250 | | | | | | | | | | A 17 | | | | | | | | | | 7A | | | | | | | | | | | | | | | | | | | |
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| A 24A | | | | | | | | | | SHLD A24 | | | | | | | | | | 37M | | | | | | | | | | | | | | | | | | | | E2 | | | | | | | | | | 37M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 24W | | | | | | | | | | P1-G* | | | | | | | | | | 22M | | | | | | | | | | 27 | | | | | | | | | | P3- 85 | | | | | | | | | | 22M | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 29 | | | | | | | | | | 2 | | | | | | | | | | 280 | | | | | | | | | | 250 | | | | | | | | | | 9 10 | | | | | | | | | | 5 | | | | | | | | | | 280 | | | | | | | | | | 250 | | | | | | | | | | A 17 | | | | | | | | | | 7A | | | | | | | | | | | | | | | | | | | |
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| A 29A | | | | | | | | | | 1 | | | | | | | | | | SHLD A25 | | | | | | | | | | 37M | | | | | | | | | | | | | | | | | | | | E2 | | | | | | | | | | 37M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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6JK CABLE W-58 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---|---------------|-------------|-----|---|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 39R | | P1-FF | 22M | 27 | | P3- 4 | 22M | 22 | |
| A 39T | | P1-MH | 22M | 27 | | P3- 18 | 22M | 22 | |
| A 40 | 2 | | 230 200 9 10 | 5 | | | 230 200 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 40A | 1 | SHLD A40 | 37M | | | E5 | 37M | | |
| A 40M | | P2-A | 22M | 24 | | P3- 39 | 22M | 22 | |
| A 41 | 2 | | 230 200 9 10 | 5 | | | 230 200 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 41A | 1 | SHLD A41 | 37M | | | E5 | 37M | | |
| A 41M | | P2-B | 22M | 24 | | P3- 73 | 22M | 22 | |
| A 42 | 2 | | 230 200 9 10 | 5 | | | 230 200 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 42A | 1 | SHLD A42 | 37M | | | E5 | 37M | | |
| A 42M | | P2-C | 22M | 24 | | P3- 10 | 22M | 22 | |
| A 43 | 3 | | 230 200 11 12 | 5 | | | 230 200 | A 16 | 7A |
| | | | | A 16 | | | | | |
| A 43A | 1 | SHLD A43 | 37M | | | E5 | 37M | | |
| A 43L | | P2-E | 22M | 24 | | P3- 23 | 22M | 22 | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | SCALE - NONE | | | | REV LTR B SHEET 13 OF 20 | | | |

6JK CABLE W-58 1900998

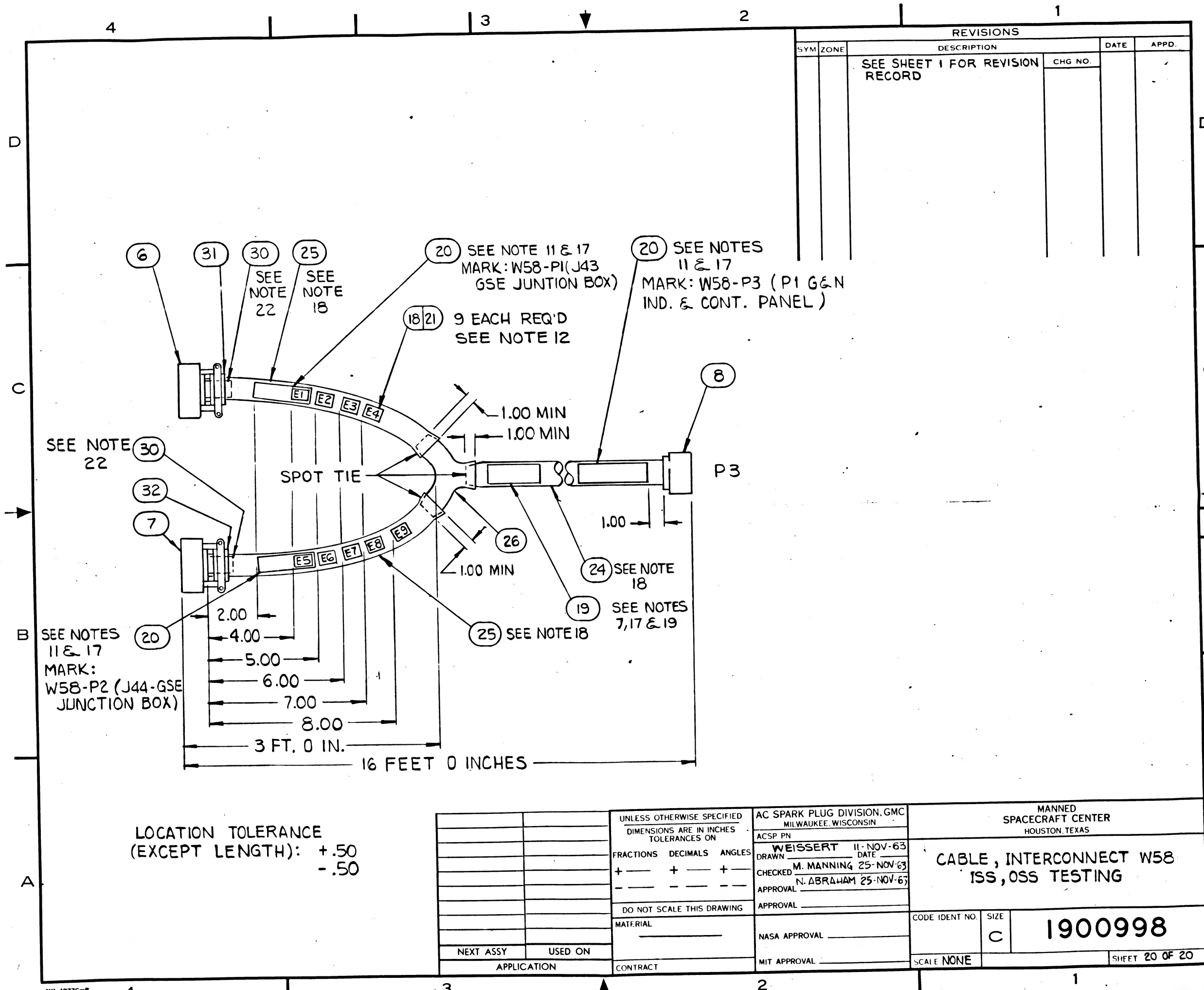
| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---|---------------|-------------|-----|---|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 43R | | P2-D | 22M | 28 | | P3- 26 | 22M | 22 | |
| A 44 | 3 | | 230 200 11 12 | 5 | | | 230 200 | A 16 | 7A |
| | | | | A 16 | | | | | |
| A 44A | 1 | SHLD A44 | 37M | | | E5 | 37M | | |
| A 44L | | P2-G | 22M | 28 | | P3- 34 | 22M | 22 | |
| A 44R | | P2-F | 22M | 28 | | P3- 35 | 22M | 22 | |
| A 45 | 3 | | 230 200 11 12 | 5 | | | 230 200 | A 16 | 7A |
| | | | | A 16 | | | | | |
| A 45A | 1 | SHLD A45 | 37M | | | E5 | 37M | | |
| A 45L | | P2-J | 22M | 28 | | P3- 33 | 22M | 22 | |
| A 45R | | P2-H | 22M | 28 | | P3- 19 | 22M | 22 | |
| A 46 | 1 | P2-K | 22M | 28 | | P3- 99 | 22M | 22 | |
| A 47 | 3 | | 280 250 11 12 | 5 | | | 280 250 | A 16 | 7A |
| | | | | A 16 | | | | | |
| A 47A | 1 | SHLD A47 | 37M | | | E6 | 37M | | |
| A 47L | | P2-M | 22M | 28 | | P3- 64 | 22M | 22 | |
| A 47R | | P2-L | 22M | 28 | | P3- 63 | 22M | 22 | |
| A 48 | 2 | | 280 250 9 10 | 5 | | | 280 250 | A 17 | 7A |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | SCALE - NONE | | | | REV LTR B SHEET 14 OF 20 | | | |

6JK CABLE W-58 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---|---------------|-------------|-----|---|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 48A | 3 | SHLD A48 | 37M | | | E6 | 37M | | |
| A 48M | | P2-N | 22M | 28 | | P3- 29 | 22M | 22 | |
| A 49 | 1 | P2-R | 22M | 28 | | P3- 14 | 22M | 22 | |
| A 50 | 1 | P2-S | 22M | 28 | | P3- 50 | 22M | 22 | |
| A 51 | 1 | P2-T | 22M | 28 | | P3- 21 | 22M | 22 | |
| A 52 | 1 | P2-U | 22M | 28 | | P3- 70 | 22M | 22 | |
| A 53 | 2 | | 280 250 9 10 | 5 | | | 280 250 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 53A | 2 | SHLD A53 | 37M | | | E6 | 37M | | |
| A 53M | | P2-V | 22M | 28 | | P3- 82 | 22M | 22 | |
| A 54 | 1 | P2-W | 22M | 28 | | P3- 58 | 22M | 22 | |
| A 55 | 1 | P2-X | 22M | 28 | | P3- 59 | 22M | 22 | |
| A 56 | 1 | P2-Y | 22M | 28 | | P3- 66 | 22M | 22 | |
| A 57 | 1 | P2-Z | 22M | 28 | | P3- 78 | 22M | 22 | |
| A 58 | 1 | P2-A* | 22M | 28 | | E9 | 37M | | |
| A 59 | 1 | P2-B* | 22M | 28 | | P3- 81 | 22M | 22 | |
| A 60 | 1 | P2-C* | 22M | 28 | | P3- 79 | 22M | 22 | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | SCALE - NONE | | | | REV LTR B SHEET 15 OF 20 | | | |

6JK CABLE W-58 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---|---------------|-------------|-----|---|---------------|-------------|-----|
| | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 61 | 1 | P2-D* | 22M | 28 | | P3- 68 | 22M | 22 | |
| A 62 | 1 | P2-E* | 22M | 28 | | P3- 67 | 22M | 22 | |
| A 63 | 2 | | 280 250 9 10 | 5 | | | 280 250 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 63A | 1 | SHLD A63 | 37M | | | E6 | 37M | | |
| A 63M | | P2-F* | 22M | 28 | | P3- 89 | 22M | 22 | |
| A 64 | 2 | | 280 250 9 10 | 5 | | | 280 250 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 64A | 1 | SHLD A64 | 37M | | | E6 | 37M | | |
| A 64M | | P2-G* | 22M | 28 | | P3-104 | 22M | 22 | |
| A 65 | 2 | | 280 250 9 10 | 5 | | | 280 250 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 65A | 1 | SHLD A65 | 37M | | | E6 | 37M | | |
| A 65M | | P2-H* | 22M | 28 | | P3- 97 | 22M | 22 | |
| A 66 | 2 | | 330 300 9 10 | 5 | | | 330 300 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 66A | 1 | SHLD A66 | 37M | | | E7 | 37M | | |
| A 66M | | P2-J* | 22M | 28 | | P3- 86 | 22M | 22 | |
| | | THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | SCALE - NONE | | | | REV LTR B SHEET 16 OF 20 | | | |



| CONDUCTOR | | FROM | | TO | |
|--|----------|---|-------------------|--------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 67 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 67A | 1 | SHLD A67 37N | | E7 37N | |
| A 67W | | P2-K* 22N 28 | | P3-102 22N 22 | |
| A 68 | 1 | P2-M* 22N 28 | | P3-37 22N 22 | |
| A 69 | 1 | P2-N* 22N 28 | | P3-30 22N 22 | |
| A 70 | 1 | P2-P* 22N 28 | | P3-31 22N 22 | |
| A 71 | 1 | P2-R* 22N 28 | | P3-55 22N 22 | |
| A 72 | 1 | P2-S* 22N 28 | | P3-46 22N 22 | |
| A 72 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 72A | 1 | SHLD A72 37N | | E7 37N | |
| A 72W | | P2-T* 22N 28 | | P3-88 22N 22 | |
| A 73 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 73A | 1 | SHLD A73 37N | | E7 37N | |
| A 73W | | P2-U* 22N 28 | | P3-87 22N 22 | |
| A 74 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR B SHEET 17 OF 20 | |

| CONDUCTOR | | FROM | | TO | |
|--|----------|---|-------------------|--------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 74A | 1 | SHLD A74 37N | | E7 37N | |
| A 74W | | P2-V* 22N 28 | | P3-101 22N 22 | |
| A 75 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 75A | 1 | SHLD A75 37N | | E7 37N | |
| A 75W | | P2-W* 22N 28 | | P3-76 22N 22 | |
| A 76 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 76A | 1 | SHLD A76 37N | | E8 37N | |
| A 76W | | P2-X* 22N 28 | | P3-75 22N 22 | |
| A 77 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 77A | 1 | SHLD A77 37N | | E8 37N | |
| A 77W | | P2-Y* 22N 28 | | P3-105 22N 22 | |
| A 78 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 78A | 1 | SHLD A78 37N | | E8 37N | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR B SHEET 18 OF 20 | |

| CONDUCTOR | | FROM | | TO | |
|--|----------|---|-------------------|--------------------------|-------------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | CUT WIRE OR SHIELD | TERMINATION SPEC. |
| NUMBER | NO. | STRIP WIRE OR JACKET | ITEM NO. | STRIP WIRE OR JACKET | ITEM NO. |
| CIRCUIT POINT | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 78W | | P2-AA 22N 28 | | P3-49 22N 22 | |
| A 79 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 79A | 1 | SHLD A79 37N | | E8 37N | |
| A 79W | | P2-BB 22N 28 | | P3-38 22N 22 | |
| A 80 | 1 | P2-CC 22N 28 | | P3-72 22N 22 | |
| A 81 | 1 | P2-DD 22N 28 | | P3-25 22N 22 | |
| A 82 | 1 | E1 37N | | E4 37N | |
| A 83 | 1 | E2 37N | | E4 37N | |
| A 84 | 1 | E3 37N | | E4 37N | |
| A 85 | 1 | E5 37N | | E9 37N | |
| A 86 | 1 | E6 37N | | E9 37N | |
| A 87 | 1 | E7 37N | | E9 37N | |
| A 88 | 1 | E8 37N | | E9 37N | |
| A 89 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 89A | 1 | SHLD A89 37N | | E8 37N | |
| A 89W | | P2-II* 22N 28 | | P3-103 22N 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | SCALE-NONE | | REV LTR B SHEET 19 OF 20 | |

CABLE W-58 1900998

PERMANENT NOTE

GENERAL NOTES

- SEE CONDUCTOR CHART, PERMANENT NOTE 1.
- SEE CONDUCTOR CHART, PERMANENT NOTE 2.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70329.
- MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
- SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
- SPIRALLING OF THE MARKING IS ALLOWED.
- IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (E9-267). .12 INCH HIGH CHARACTERS WHITE.
- Y OR N IN TITLED COLUMN INDICATES YES OR NO.
- A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
- VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
- MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
- MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
- MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR Y IN THE ACCESSORIES ITEM NUMBER FIELD.

| | | |
|--|-----------|---------------|
| MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR | E |
| | | SHEET 2 OF 21 |

CABLE W-58 1900998

PERMANENT NOTE

GENERAL NOTES

- A OR Y PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
X - FROM END SHIELD
L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L
R - WHITE WITH RED TRACER OR WHITE WITH LETTER R
Y - WHITE WITH YELLOW TRACER
- ASSEMBLE CONTACTS IN ALL CONNECTOR BRONNET HOLDS.
- SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR.
- SEAL ZIPPER TUBING PER ND1002199.
- SERIALIZE PER ND1002023.
- ITEM 27 FURNISHED WITH ITEM 8.
- ITEM 28 FURNISHED WITH ITEM 7.
- ITEM 30 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 30 AS REQUIRED TO FIT.

| | | |
|--|-----------|---------------|
| MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR | E |
| | | SHEET 3 OF 21 |

FOR INFORMATION ONLY

CLASS B RELEASE TOR No. 2153 DATE 4/7/94

| SYN | DESCRIPTION | DATE | APPROVAL |
|-----|-------------------------------------|-----------|----------|
| A | CHANGE IN ACCORDANCE WITH CM193777 | 7-8-64 | 66 |
| B | CHANGE IN ACCORDANCE WITH CM195032 | 5 MAR 64 | 64 |
| C | CHANGE IN ACCORDANCE WITH CM 200712 | 2 APR 64 | 64 |
| D | REVISOR CUSTOMER DATA | 27 MAY 64 | 64 |
| E | CHANGE IN ACCORDANCE WITH CM197538 | 8 JUNE 64 | 64 |

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS

CABLE, INTERCONNECT W58 ISS, OSS TESTING

| | | |
|----------------|---------|---------------|
| CODE IDENT NO. | SIZE | 1900998 |
| SCALE | REV LTR | E |
| | | SHEET 1 OF 21 |

CONTRACT

CABLE W-58 1900998

PERMANENT NOTE

GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED

| APPLICABLE LENGTH FOR WIRE OR CABLE | WIRE OR CABLE | WIRE | STRIP WIRE | WIRE | WIRE | WIRE | WIRE |
|-------------------------------------|---------------|----------|------------|----------|----------|----------|----------|
| UNDER 1 INCH | .05-.06 | +.05-.06 | +.05-.06 | +.05-.06 | +.05-.06 | +.05-.06 | +.05-.06 |
| 1 INCH TO 6 INCHES | +.50-.00 | +.06-.00 | +.25-.23 | +.25-.23 | +.25-.23 | +.25-.23 | +.25-.23 |
| 6 INCHES TO 6 FEET | +.10-.00 | +.50-.50 | +.50-.50 | +.50-.50 | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +.20-.00 | | | | | | |

| | | |
|--|-----------|---------------|
| MANUFACTURER SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR | E |
| | | SHEET 4 OF 21 |

| CABLE V-38 | | | |
|--|----------|-------------------------------|--|
| 1900998 | | | |
| LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| | 1 | 1900998-001 | WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO. 22AWG, 820 FT., 0 IN. TOTAL LENGTH. |
| | 1 | 1900998-002 | WIRE ND1002181, TYPE 1, CLASS 4, WHT, JKT NO. 22AWG, WHT, 432 FT., 0 IN. TOTAL LENGTH. |
| | 1 | 1900998-003 | WIRE ND1002181, TYPE 2, CLASS 4, WHT, JKT NO. 22AWG, WHT/BLU, WHT/RED, 180 FT., 0 IN. TOTAL LG. |
| | 1 | 1900998-004 | WIRE ND1002181, TYPE 3, CLASS 4, WHT, JKT NO. 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 50 FT., 0 IN. TOTAL LENGTH. |
| | 1 | 1900998-005 | WIRE ND1002181, TYPE 2, CLASS 1, T2, 22AWG WHT WITH LETTER L, WHT WITH LETTER R, 35 FT., 0 IN. TOTAL LENGTH. |
| 16 | 4 | M53126F-24-61SX (1897048-612) | CONNECTOR |
| 16 | 7 | M53126F-22-55PW (1897049-551) | CONNECTOR |
| 10 | 1 | 1010411 | CONNECTOR |
| 10 | 9 | 1000248-3 | FERRULE, ELECT. COND. |
| 10 | 10 | 1000242-2 | FERRULE, ELECT. COND. |
| 10 | 11 | 1000243-8 | FERRULE, ELECT. COND. |
| 10 | 12 | 1000242-7 | FERRULE, ELECT. COND. |
| 10 | 13 | 1000248-11 | FERRULE, ELECT. COND. |
| 10 | 14 | 1000242-11 | FERRULE, ELECT. COND. |
| 10 | 15 | 1010490-196 | INSULATION, SLEEVING, ELECT. |
| <div> <div>MANUFACTURED BY</div> <div>SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SIZE</div> <div>A</div> </div> <div> <div>1900998</div> </div> | | | |
| SCALE: NONE REV LTR E SHEET 5 OF 21 | | | |

| CABLE V-38 | | | |
|--|----------|------------------------|---|
| 1900998 | | | |
| LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 10 | 16 | 1010490-197 | INSULATION, SLEEVING, ELECT. |
| 10 | 17 | 1010490-200 | INSULATION, SLEEVING, ELECT. |
| 10 | 18 | 1010490-250 | INSULATION, SLEEVING, ELECT. |
| 10 | 19 | 1016128-011 | BAND, IDENTIFICATION |
| 10 | 20 | 1016128-041 | BAND, IDENTIFICATION |
| 10 | 21 | 1010004-002 | SPLICE REDUCER |
| 10 | 22 | 1010464-2 | CONNECTOR, CONTACT, PIN |
| 23 | AB | NIL-T-713 | LACING TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| 24 | 1 | 1900998-006 | ZIPPER TUBING, ND1002159, TYPE 1, PLASTIC, FLEXIBLE 1.125 IN. DIA X 13 FT. 0 IN. TOT. LG. |
| 25 | 2 | 1900998-007 | ZIPPER TUBING, ND1002159, TYPE 1, PLASTIC, FLEXIBLE 1.0 IN. DIA X 6 FT. 0 IN. TOTAL LG. |
| 10 | 26 | 1016184-002 | TRANSITION, HARNES56, 3 FINGER, HEAT SHRINK |
| 20 | 27 | | CONNECTOR CONTACT, SOCKET |
| 21 | 28 | | CONNECTOR CONTACT, PIN |
| 10 | 29 | 1010490-188 | INSULATION, SLEEVING, ELECT. |
| 22 | 30 | AR-1897747-106-108-112 | CABLE CLAMP SLEEVE |
| 10 | 31 | 1016282-24 | RUBBER GROMMET |
| 10 | 32 | 1016282-22 | RUBBER GROMMET |
| <div> <div>MANUFACTURED BY</div> <div>SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SIZE</div> <div>A</div> </div> <div> <div>1900998</div> </div> | | | |
| SCALE: NONE REV LTR E SHEET 6 OF 21 | | | |

| CABLE V-38 | | | |
|--|----------|-------------|--|
| 1900998 | | | |
| LIST OF MATERIALS | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION |
| 10 | 33 | 1015902-46 | TERMINAL LUG |
| | 34 | 1900998-008 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH |
| <div> <div>MANUFACTURED BY</div> <div>SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SIZE</div> <div>A</div> </div> <div> <div>1900998</div> </div> | | | |
| SCALE: NONE REV LTR E SHEET 7 OF 21 | | | |

| CABLE V-38 | | | |
|--|----------|----------|-----------|
| 1900998 | | | |
| CONDUCTOR | | | |
| CONDUCTOR | FROM | TO | CONDUCTOR |
| ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 |
| 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 |
| 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 |
| 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 |
| 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 |
| 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 |
| <div> <div>MANUFACTURED BY</div> <div>SPACECRAFT CENTER</div> <div>HOUSTON, TEXAS</div> </div> <div> <div>SIZE</div> <div>A</div> </div> <div> <div>1900998</div> </div> | | | |
| SCALE: NONE REV LTR E SHEET 8 OF 21 | | | |

| CONDUCTOR | | | FROM | | | TO | | |
|----------------------|----------|---------------|--------------------|-------|---------|--------------------|-------|-------------|
| TYPE/TYPE/LENGTH | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | |
| STRIP WIRE OR JACKET | | | TERMINATION | | | TERMINATION | | |
| NUMBER | ITEM NO. | CIRCUIT POINT | ITEM NO. | SPEC. | NO. | ITEM NO. | SPEC. | NO. |
| A 78 | 1 | SHLD A7 | 37N | | | E1 | 37N | |
| A 79 | | P1-J | 22N | 27 | | P3- 12 | 22N | 22 |
| A 79 | | P1-H | 22N | 27 | | P3- 11 | 22N | 22 |
| A 8 | 5 | | | A 25 | | | | A 29 |
| A 81 | | P1-L | 22N | 27 | | P3- 40 | 22N | 22 |
| A 8R | | P1-K | 22N | 27 | | P3- 41 | 22N | 22 |
| A 9 | 1 | P1-N | 22N | 27 | | P3- 43 | 22N | 22 |
| A 10 | 1 | P1-P | 22N | 27 | | P3- 71 | 22N | 22 |
| A 11 | 5 | | 230 | 200 | 11 12 5 | | 230 | 200 A 14 7A |
| | | | | A 16 | | | | |
| A 11A | 1 | SHLD A11 | 37N | | | E1 | 37N | |
| A 11L | | P1-S | 22N | 27 | | P3- 53 | 22N | 22 |
| A 11R | | P1-R | 22N | 27 | | P3- 62 | 22N | 22 |
| A 12 | 5 | | 230 | 200 | 11 12 5 | | 230 | 200 A 16 7A |
| | | | | A 16 | | | | |
| A 12A | 1 | SHLD A12 | 37N | | | E1 | 37N | |
| A 12L | | P1-U | 22N | 27 | | P3- 52 | 22N | 22 |
| A 12R | | P1-T | 22N | 27 | | P3- 61 | 22N | 22 |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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CENTER
HOUSTON, TEXAS

SIZE

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SCALE - NONE

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SHEET 9 OF 21

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------------------------------|--------------------|----------------------------------|-------------------|----------------------------------|--------------------|----------------------------------|-------------------|----------------------------------|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | | |
| ITEM NO. | STEP WIRE OR JACKET CIRCUM POINT | ITEM NO. | STEP WIRE OR JACKET CIRCUM POINT | ITEM NO. | STEP WIRE OR JACKET CIRCUM POINT | ITEM NO. | STEP WIRE OR JACKET CIRCUM POINT | ITEM NO. | STEP WIRE OR JACKET CIRCUM POINT | | |
| A 13 | 1 | P1-V | 22N | 27 | | P3- 1 | 22N | 22 | | | |
| A 14 | 1 | P1-W | 22N | 27 | | P3- 60 | 22N | 22 | | | |
| A 15 | 1 | P1-X | 22N | 27 | | P3- 2 | 22N | 22 | | | |
| A 16 | 1 | P1-Y | 22N | 27 | | P3- 96 | 22N | 22 | | | |
| A 17 | 1 | P1-Z | 22N | 27 | | P3- 99 | 22N | 22 | | | |
| A 18 | 1 | P1-A* | 22N | 27 | | E4 | 97N | | | | |
| A 19 | 1 | P1-B* | 22N | 27 | | P3- 93 | 22N | 22 | | | |
| A 20 | 1 | P1-C* | 22N | 27 | | P3- 51 | 22N | 22 | | | |
| A 21 | 1 | P1-D* | 22N | 27 | | P3-106 | 22N | 22 | | | |
| A 22 | 1 | P1-E* | 22N | 27 | | P3- 77 | 22N | 22 | | | |
| A 23 | 1 | P1-F* | 22N | 27 | | P3- 65 | 22N | 22 | | | |
| A 24 | 2 | | 280 | 250 | 9 10 | 5 | | 280 | 250 | | |
| | | | | A 16 | | | | A 17 | 7A | | |
| A 24A | 1 | SHLD A24 | 97N | | | E2 | 97N | | | | |
| A 24W | | P1-G* | 22N | 27 | | P3- 85 | 22N | 22 | | | |
| A 25 | 2 | | 280 | 250 | 9 10 | 5 | | 280 | 250 | | |
| | | | | A 16 | | | | A 17 | 7A | | |
| A 25A | 1 | SHLD A25 | 97N | | | E2 | 97N | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS

SCALE - NONE

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SHEET 10 OF 2

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|------|---------------------|----------|-------------|------|---------------------|----------|-------------|---------|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | |
| NUMBER | INCH | STEP WIRE OR JACKET | ITEM NO. | ITEM NO. | NO. | STEP WIRE OR JACKET | ITEM NO. | ITEM NO. | NO. | | |
| NUMBER | INCH | CIRCUIT POINT | | | | CIRCUIT POINT | | | | | |
| A 25W | 1 | P1-Ho | 22W | 27 | | P3- 90 | 22W | 22 | | | |
| A 26 | 1 | P1-1o | 22W | 27 | | P3- 42 | 22W | 22 | | | |
| A 27 | 8 | | | A 29 | | | | A 29 | | | |
| A 27L | | P1-Ko | 22W | 27 | | P3- 69 | 22W | 22 | | | |
| A 27R | | P1-Jo | 22W | 27 | | P3- 80 | 22W | 22 | | | |
| A 28 | 2 | | 280 | 250 | 9 10 | | 280 | 250 | A 17 7A | | |
| | | | | A 16 | | | | | | | |
| A 28A | 1 | SHLD A28 | 37W | | | E2 | 37W | | | | |
| A 28W | | P1-Ho | 22W | 27 | | P3- 92 | 22W | 22 | | | |
| A 29 | 2 | | 280 | 250 | 9 10 | | 280 | 250 | A 17 7A | | |
| | | | | A 16 | | | | | | | |
| A 29W | 1 | SHLD A29 | 37W | | | E2 | 37W | | | | |
| A 29W | | P1-Ho | 22W | 27 | | P3- 74 | 22W | 22 | | | |
| A 30 | 2 | | 280 | 250 | 9 10 | | 280 | 250 | A 17 7A | | |
| | | | | A 16 | | | | | | | |
| A 30A | 2 | SHLD A30 | 37W | | | E2 | 37W | | | | |
| A 30W | | P1-Po | 22W | 27 | | P3- 90 | 22W | 22 | | | |
| A 31 | 2 | | 280 | 250 | 9 10 | | 280 | 250 | A 17 7A | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
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CENTER
HOUSTON, TEXAS

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SHEET 11 OF 21

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|----------|--------------------|---------------|-------------|-------|--------------------|---------------|-------------|---------|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | |
| NUMBER | WIRE NO. | ITEM NO. | CIRCUIT POINT | ITEM NO. | NO. | ITEM NO. | CIRCUIT POINT | ITEM NO. | NO. | | |
| | | | | A 16 | | | | | | | |
| A 31A | 1 | SHLD A31 | 37N | | | E2 | 37N | | | | |
| A 31W | | P1-G* | 22N | 27 | | P3-100 | 22N | 22 | | | |
| A 32 | 3 | | 300 | 300 | 13 11 | 5 | 330 | 300 | A 16 7A | | |
| | | | | A 16 | | | | | | | |
| A 32A | 1 | SHLD A32 | 37N | | | E3 | 37N | | | | |
| A 32L | | P1-G* | 22N | 27 | | P3- 47 | 22N | 22 | | | |
| A 32R | | P1-R* | 22N | 27 | | P3- 56 | 22N | 22 | | | |
| A 33 | 3 | | 300 | 300 | 13 12 | 5 | 300 | 300 | A 16 7A | | |
| | | | | A 16 | | | | | | | |
| A 33A | 1 | SHLD A33 | 37N | | | E3 | 37N | | | | |
| A 33L | | P1-U* | 22N | 27 | | P3- 57 | 22N | 22 | | | |
| A 33R | | P1-T* | 22N | 27 | | P3- 48 | 22N | 22 | | | |
| A 34 | 1 | P1-V* | 22N | 27 | | P3- 36 | 22N | 22 | | | |
| A 35 | 1 | P1-W* | 22N | 27 | | P3- 94 | 22N | 22 | | | |
| A 36 | 4 | | 300 | 300 | 13 14 | 5 | 330 | 300 | A 15 7A | | |
| | | | | A 15 | | | | | | | |
| A 36A | 1 | SHLD A36 | 37N | | | E3 | 37N | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS

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SHEET 12 OF

| CABLE W-50 | | | | | | | | | | | |
|--|----------|----------|----------|---|----------|----------|----------|--------------------------|----------|----------|----------|
| CONDUCTOR | | | | FROM | | | | TO | | | |
| ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| A 36L | P1-V9 | 22N | 27 | | | P3-17 | 22N | 22 | | | |
| A 36R | P1-X9 | 22N | 27 | | | P3-9 | 22N | 22 | | | |
| A 36Y | P1-Z9 | 22N | 27 | | | P3-16 | 22N | 22 | | | |
| A 37 | | 330 | 300 | 11 | 12 | | | 330 | 300 | A 16 | 7A |
| A 37A | SHLD A37 | 37N | | | | E3 | 37N | | | | |
| A 37L | P1-B8 | 22N | 27 | | | P3-27 | 22N | 22 | | | |
| A 37R | P1-AA | 22N | 27 | | | P3-13 | 22N | 22 | | | |
| A 38 | | 330 | 300 | 13 | 14 | | | 330 | 300 | A 15 | 7A |
| A 38A | SHLD A38 | 37N | | | | E3 | 37N | | | | |
| A 38L | P1-DD | 22N | 27 | | | P3-6 | 22N | 22 | | | |
| A 38R | P1-CC | 22N | 27 | | | P3-20 | 22N | 22 | | | |
| A 38Y | P1-EE | 22N | 27 | | | P3-7 | 22N | 22 | | | |
| A 39 | | 330 | 300 | 13 | 14 | | | 330 | 300 | A 19 | 7A |
| A 39A | SHLD A39 | 37N | | | | E3 | 37N | | | | |
| A 39L | P1-G6 | 22N | 27 | | | P3-5 | 22N | 22 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900998 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE | | | | REV LTR E SHEET 13 OF 21 | | | |

| CABLE W-50 | | | | | | | | | | | |
|--|----------|----------|----------|---|----------|----------|----------|--------------------------|----------|----------|----------|
| CONDUCTOR | | | | FROM | | | | TO | | | |
| ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| A 39R | P1-PF | 22N | 27 | | | P3-4 | 22N | 22 | | | |
| A 39Y | P1-BH | 22N | 27 | | | P3-18 | 22N | 22 | | | |
| A 40 | | 230 | 200 | 9 | 10 | | | 230 | 200 | A 17 | 7A |
| A 40A | SHLD A40 | 37N | | | | E5 | 37N | | | | |
| A 40R | P2-A | 22N | 28 | | | P3-99 | 22N | 22 | | | |
| A 41 | | 230 | 200 | 9 | 10 | | | 230 | 200 | A 17 | 7A |
| A 41A | SHLD A41 | 37N | | | | E5 | 37N | | | | |
| A 41R | P2-B | 22N | 28 | | | P3-73 | 22N | 22 | | | |
| A 42 | | 230 | 200 | 9 | 10 | | | 230 | 200 | A 17 | 7A |
| A 42A | SHLD A42 | 37N | | | | E5 | 37N | | | | |
| A 42R | P2-C | 22N | 28 | | | P3-10 | 22N | 22 | | | |
| A 43 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 43A | SHLD A43 | 37N | | | | E5 | 37N | | | | |
| A 43L | P2-E | 22N | 28 | | | P3-23 | 22N | 22 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900998 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE | | | | REV LTR E SHEET 14 OF 21 | | | |

| CABLE W-50 | | | | | | | | | | | |
|--|----------|----------|----------|---|----------|----------|----------|--------------------------|----------|----------|----------|
| CONDUCTOR | | | | FROM | | | | TO | | | |
| ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| A 43R | P2-D | 22N | 28 | | | P3-24 | 22N | 22 | | | |
| A 44 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 44A | SHLD A44 | 37N | | | | E5 | 37N | | | | |
| A 44L | P2-H | 22N | 28 | | | P3-34 | 22N | 22 | | | |
| A 44R | P2-F | 22N | 28 | | | P3-35 | 22N | 22 | | | |
| A 45 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 45A | SHLD A45 | 37N | | | | E5 | 37N | | | | |
| A 45L | P2-J | 22N | 28 | | | P3-33 | 22N | 22 | | | |
| A 45R | P2-M | 22N | 28 | | | P3-19 | 22N | 22 | | | |
| A 46 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 46A | SHLD A46 | 37N | | | | E6 | 37N | | | | |
| A 46L | P2-K | 22N | 28 | | | P3-99 | 22N | 22 | | | |
| A 47 | | 230 | 250 | 11 | 12 | | | 230 | 250 | A 16 | 7A |
| A 47A | SHLD A47 | 37N | | | | E6 | 37N | | | | |
| A 47L | P2-N | 22N | 28 | | | P3-64 | 22N | 22 | | | |
| A 47R | P2-L | 22N | 28 | | | P3-63 | 22N | 22 | | | |
| A 48 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900998 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE | | | | REV LTR E SHEET 15 OF 21 | | | |

| CABLE W-50 | | | | | | | | | | | |
|--|----------|----------|----------|---|----------|----------|----------|--------------------------|----------|----------|----------|
| CONDUCTOR | | | | FROM | | | | TO | | | |
| ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. |
| NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| A 48A | SHLD A48 | 37N | | | | E6 | 37N | | | | |
| A 48R | P2-N | 22N | 28 | | | P3-29 | 22N | 22 | | | |
| A 49 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 49A | SHLD A49 | 37N | | | | E6 | 37N | | | | |
| A 49L | P2-R | 22N | 28 | | | P3-34 | 22N | 22 | | | |
| A 50 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 50A | SHLD A50 | 37N | | | | E6 | 37N | | | | |
| A 50L | P2-S | 22N | 28 | | | P3-50 | 22N | 22 | | | |
| A 51 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 51A | SHLD A51 | 37N | | | | E6 | 37N | | | | |
| A 51L | P2-T | 22N | 28 | | | P3-21 | 22N | 22 | | | |
| A 52 | | 230 | 200 | 11 | 12 | | | 230 | 200 | A 16 | 7A |
| A 52A | SHLD A52 | 37N | | | | E6 | 37N | | | | |
| A 52L | P2-U | 22N | 28 | | | P3-70 | 22N | 22 | | | |
| A 53 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 53A | SHLD A53 | 37N | | | | E6 | 37N | | | | |
| A 53L | P2-V | 22N | 28 | | | P3-82 | 22N | 22 | | | |
| A 54 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 54A | SHLD A54 | 37N | | | | E6 | 37N | | | | |
| A 54L | P2-W | 22N | 28 | | | P3-58 | 22N | 22 | | | |
| A 55 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 55A | SHLD A55 | 37N | | | | E6 | 37N | | | | |
| A 55L | P2-X | 22N | 28 | | | P3-59 | 22N | 22 | | | |
| A 56 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 56A | SHLD A56 | 37N | | | | E6 | 37N | | | | |
| A 56L | P2-Y | 22N | 28 | | | P3-66 | 22N | 22 | | | |
| A 57 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 57A | SHLD A57 | 37N | | | | E6 | 37N | | | | |
| A 57L | P2-Z | 22N | 28 | | | P3-78 | 22N | 22 | | | |
| A 58 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 58A | SHLD A58 | 37N | | | | E6 | 37N | | | | |
| A 58L | P2-AA | 22N | 28 | | | P3-81 | 22N | 22 | | | |
| A 59 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 59A | SHLD A59 | 37N | | | | E6 | 37N | | | | |
| A 59L | P2-AB | 22N | 28 | | | P3-79 | 22N | 22 | | | |
| A 60 | | 230 | 250 | 9 | 10 | | | 230 | 250 | A 17 | 7A |
| A 60A | SHLD A60 | 37N | | | | E6 | 37N | | | | |
| A 60L | P2-AC | 22N | 28 | | | P3-79 | 22N | 22 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | 1900998 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | SCALE-NONE | | | | REV LTR E SHEET 16 OF 21 | | | |

| CABLE W-58 | | | | | | | | | | | | E | | 1900998 | |
|---|----------|---|---------------------|---------------|-----|-------------|----------|--|---------------------|---------------|-------------|----------------|----------|---------|--|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | CUT WIRE OR SHIELD | | | TERMINATION | | | | |
| NUMBER | ITEM NO. | 3 | STEP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 | ITEM NO. | NO. | |
| A 61 | 1 | | P2-D6 | 22N | 20 | | | | P3-68 | 22N | 22 | | | | |
| A 62 | 1 | | P2-E6 | 22N | 28 | | | | P3-67 | 22N | 22 | | | | |
| A 63 | 2 | | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 17 | 7A | | |
| | | | | | | A 16 | | | | | | | | | |
| A 63A | 1 | | SHLD A63 | 37N | | | | | E6 | 37N | | | | | |
| A 63M | | | P2-F6 | 22N | 28 | | | | P3-69 | 22N | 22 | | | | |
| A 64 | 2 | | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 17 | 7A | | |
| | | | | | | A 16 | | | | | | | | | |
| A 64A | 1 | | SHLD A64 | 37N | | | | | E6 | 37N | | | | | |
| A 64M | | | P2-G6 | 22N | 28 | | | | P3-104 | 22N | 22 | | | | |
| A 65 | 2 | | | 280 | 250 | 9 10 | 5 | | | 280 | 250 | A 17 | 7A | | |
| | | | | | | A 16 | | | | | | | | | |
| A 65A | 1 | | SHLD A65 | 37N | | | | | E6 | 37N | | | | | |
| A 65M | | | P2-H6 | 22N | 28 | | | | P3-97 | 22N | 22 | | | | |
| A 66 | 2 | | | 330 | 300 | 9 10 | 5 | | | 330 | 300 | A 17 | 7A | | |
| | | | | | | A 16 | | | | | | | | | |
| A 66A | 1 | | SHLD A66 | 37N | | | | | E7 | 37N | | | | | |
| A 66M | | | P2-J6 | 22N | 28 | | | | P3-86 | 22N | 22 | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | | |
| SCALE - NONE | | | | | | | | REV LTR | | E | | SHEET 17 OF 21 | | | |

| CABLE W-58 | | | | | | | | | | | |
|---|----------|---------------------|---------------|-------------|------|--|---------------|---------------|-----|---------------------|---------------|
| CONDUCTOR | | | FROM | | | TO | | | | | |
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT |
| A 67 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | A 16 | | | | | | | |
| A 67A | 1 | SHLD A67 | 37N | | | E7 | | 37N | | | |
| A 67M | | P2-K6 | 22N | 28 | | P3-102 | 22N | 22 | | | |
| A 68 | 1 | P2-M6 | 22N | 28 | | P3-37 | 22N | 22 | | | |
| A 69 | 1 | P2-N6 | 22N | 28 | | P3-30 | 22N | 22 | | | |
| A 70 | 1 | P2-O6 | 22N | 28 | | P3-31 | 22N | 22 | | | |
| A 71 | 1 | P2-R6 | 22N | 28 | | P3-55 | 22N | 22 | | | |
| A 72 | 1 | P2-S6 | 22N | 28 | | P3-66 | 22N | 22 | | | |
| A 72 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | A 16 | | | | | | | |
| A 72A | 1 | SHLD A72 | 37N | | | E7 | | 37N | | | |
| A 72M | | P2-T6 | 22N | 28 | | P3-88 | 22N | 22 | | | |
| A 73 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | A 16 | | | | | | | |
| A 73A | 1 | SHLD A73 | 37N | | | E7 | | 37N | | | |
| A 73M | | P2-U6 | 22N | 28 | | P3-87 | 22N | 22 | | | |
| A 74 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | |
| | | | | | | SCALE - NONE | | REV LTR E | | SHEET 18 OF 21 | |

6 JK

CABLE W-58

1900998

CONDUCTOR

FROM

TO

| INDIVIDUAL CONDUCTOR | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
|----------------------|----------|---------------------|---------------|-------------|-----|---------------------|---------------|-------------|-----|
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 74A | 1 | SHLD A74 | 37N | A 16 | | E7 | 37N | | |
| A 74M | | P2-V6 | 22N | 28 | | P3-101 | 22N | 22 | |
| A 75 | 2 | | 330 300 9 10 | 5 | | | 330 300 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 75A | 1 | SHLD A75 | 37N | | | E7 | 37N | | |
| A 75M | | P2-W6 | 22N | 28 | | P3- 76 | 22N | 22 | |
| A 76 | 2 | | 330 300 9 10 | 5 | | | 330 300 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 76A | 1 | SHLD A76 | 37N | | | E8 | 37N | | |
| A 76M | | P2-X6 | 22N | 28 | | P3- 75 | 22N | 22 | |
| A 77 | 2 | | 330 300 9 10 | 5 | | | 330 300 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 77A | 1 | SHLD A77 | 37N | | | E8 | 37N | | |
| A 77M | | P2-Y6 | 22N | 28 | | P3-105 | 22N | 22 | |
| A 78 | 2 | | 330 300 9 10 | 5 | | | 330 300 | A 17 | 7A |
| | | | | A 16 | | | | | |
| A 78A | 1 | SHLD A78 | 37N | | | E8 | 37N | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER

HOUSTON, TEXAS

SCALE - NONE

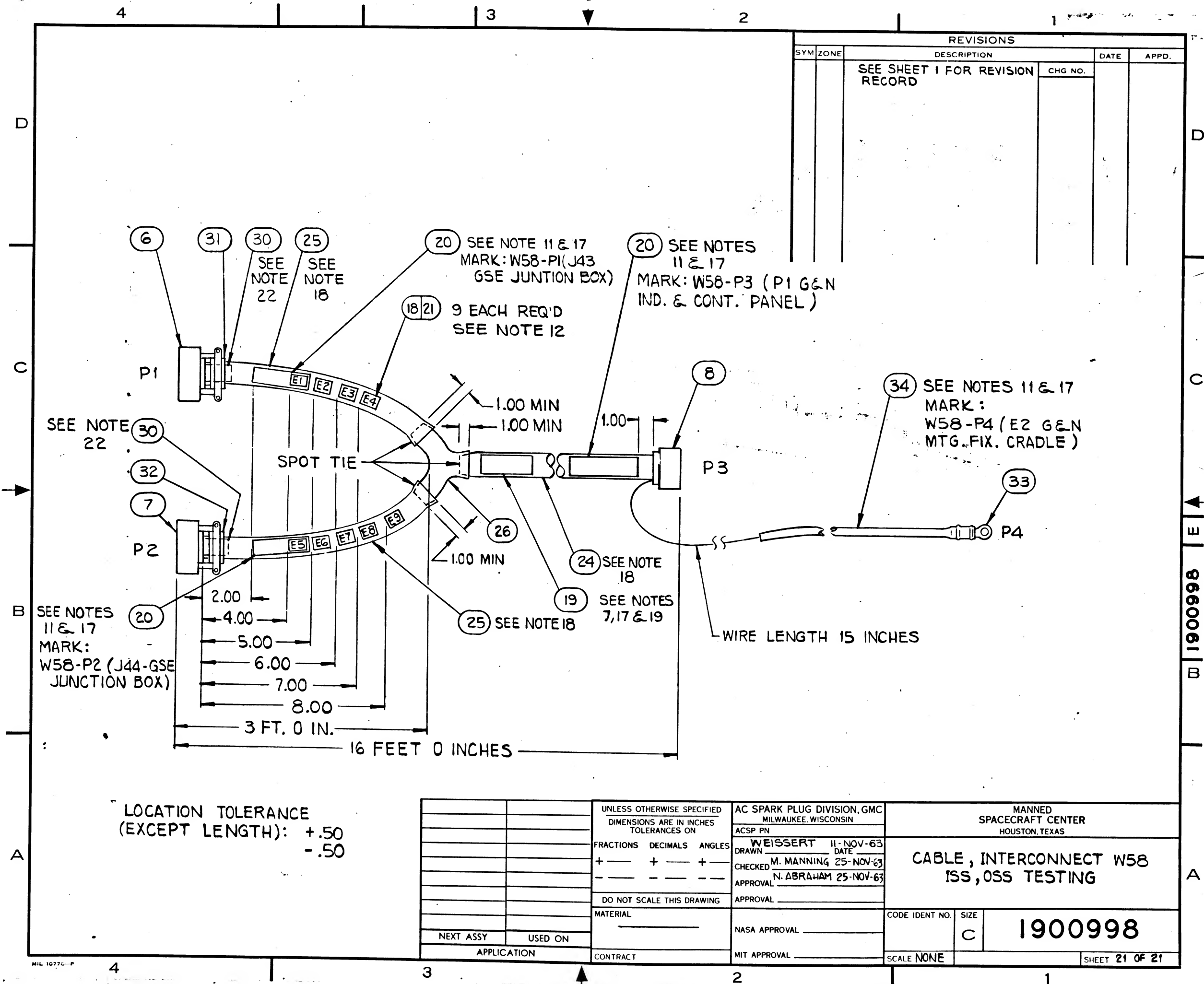
REV LTR

E

1900998

SHEET 19 OF 21

| CABLE W-58 | | | | | | | | | | | |
|---|----------|---------------------|--------------------|----------|-----|---------------------|---------------|----------|-------------|---------------------|---------------|
| CONDUCTOR | | | FROM | | | TO | | | TERMINATION | | |
| INDIVIDUAL LINES | | | CUT WIRE OR SHIELD | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT |
| A 78M | | P2-AA | 22N | 28 | | P3- 49 | 22N | 22 | | | |
| A 79 | 2 | | 360 350 9 10 | 5 | | 360 350 | A 17 | 7A | | | |
| | | | A 16 | | | | | | | | |
| A 79A | 1 | SHLD A79 | 37N | | | E8 | 37N | | | | |
| A 79M | | P2-BB | 22N | 28 | | P3- 38 | 22N | 22 | | | |
| A 80 | 1 | P2-CC | 22N | 28 | | P3- 72 | 22N | 22 | | | |
| A 81 | 1 | P2-DD | 22N | 28 | | P3- 25 | 22N | 22 | | | |
| A 82 | 1 | E1 | 37N | | | E4 | 37N | | | | |
| A 83 | 1 | E2 | 37N | | | E4 | 37N | | | | |
| A 84 | 1 | E3 | 37N | | | E4 | 37N | | | | |
| A 85 | 1 | E5 | 37N | | | E9 | 37N | | | | |
| A 86 | 1 | E6 | 37N | | | E9 | 37N | | | | |
| A 87 | 1 | E7 | 37N | | | E9 | 37N | | | | |
| A 88 | 1 | E8 | 37N | | | E9 | 37N | | | | |
| A 89 | 2 | | 360 350 9 10 | 5 | | 360 350 | A 17 | 7A | | | |
| | | | A 16 | | | | | | | | |
| A 89A | 1 | SHLD A89 | 37N | | | E8 | 37N | | | | |
| A 89M | | P2-1* | 22N | 28 | | P3-103 | 22N | 22 | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | SIZE | | 1900998 | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | A | | | | | |
| SCALE - NONE | | | | | | REV LTR | | F | | SHEET 20 OF 21 | |



[illegible]

| GJK | | CABLE W-58 | | F | | 1900998 | |
|---------|---|--|---------|---------|---------------|---------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | | | | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | | | | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | | | | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | | | | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | | | | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | | | | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | | | | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | | | | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | | | | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | | | | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019, CENTRALIZE. | | | | | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | | | | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | | |
| | | SCALE-NONE | REV LTR | F | SHEET 2 OF 22 | | |

| GJK | | CABLE W-58 | | F | | 1900998 | |
|---------|--|--|---------|---------|---------------|---------|--|
| PENNANT | GENERAL NOTES | | | | | | |
| NOTE | | | | | | | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. | | | | | | |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L. R - WHITE WITH RED TRACER OR WHITE WITH LETTER R. Y - WHITE WITH YELLOW TRACER | | | | | | |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. | | | | | | |
| 17 | SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR. | | | | | | |
| 18 | SEAL ZIPPER TUBING PER ND1002153 | | | | | | |
| 19 | SERIALIZE PER ND1002023 | | | | | | |
| 20 | ITEM 27 FURNISHED WITH ITEM 6 | | | | | | |
| 21 | ITEM 28 FURNISHED WITH ITEM 7 | | | | | | |
| 22 | ITEM 30 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 30 AS REQUIRED TO FIT. | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | | |
| | | SCALE-NONE | REV LTR | F | SHEET 3 OF 22 | | |

| GJK | | CABLE W-58 | | F | | 1900998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--|--------------|----------|---------------|---------|--|--|---------------|------|--------------|------|------------|--------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|--------------------|-----------|--|----------|----------|----------|-------------|-----------|--|--|--|--|
| PENNANT | GENERAL NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>WIRE OR CABLE</th> <th>WIRE</th> <th>STRIP JACKET</th> <th>WIRE</th> <th>CUT SHIELD</th> </tr> </thead> <tbody> <tr> <td>UNDER 1 INCH</td> <td>+.06-.00</td> <td>+.03-.00</td> <td>+.06-.06</td> <td>+.06-.06</td> <td>+.06-.06</td> </tr> <tr> <td>1 INCH TO 6 INCHES</td> <td>+.50-.00</td> <td>+.06-.00</td> <td>+.25-.25</td> <td>+.25-.25</td> <td>+.25-.25</td> </tr> <tr> <td>6 INCHES TO 6 FEET</td> <td>+1.00-.00</td> <td></td> <td>+.50-.50</td> <td>+.50-.50</td> <td>+.50-.50</td> </tr> <tr> <td>OVER 6 FEET</td> <td>+2.00-.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | UNDER 1 INCH | +.06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 | 1 INCH TO 6 INCHES | +.50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 | 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 | OVER 6 FEET | +2.00-.00 | | | | |
| | WIRE OR CABLE | WIRE | STRIP JACKET | WIRE | CUT SHIELD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER 1 INCH | +.06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 INCH TO 6 INCHES | +.50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER 6 FEET | +2.00-.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCALE-NONE | REV LTR | F | SHEET 4 OF 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GJK | | CABLE W-58 | | F | | 1900998 | |
|---------|-------------------|--|---|---------|---------------|---------|--|
| PENNANT | LIST OF MATERIALS | | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| 1 | 1 | 1900998-001 | WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO. 22AWG 620 FT., 0 IN. TOTAL LENGTH. | | | | |
| 2 | 1 | 1900998-002 | WIRE ND1002181, TYPE 1, CLASS 4, WHT, JKT, NO. 22AWG, WHT, 432 FT., 0 IN. TOTAL LENGTH. | | | | |
| 3 | 1 | 1900998-003 | WIRE ND1002181, TYPE 2, CLASS 4, WHT, JKT, NO. 22AWG WHT/BLU, WHT/RED, 180 FT., 0 IN. TOTAL LG. | | | | |
| 4 | 1 | 1900998-004 | WIRE ND1002181, TYPE 3, CLASS 4, WHT, JKT, NO. 22AWG WHT/BLU, WHT/RED, WHT/YEL 50 FT., 0 IN. TOTAL LENGTH. | | | | |
| 5 | 1 | 1900998-005 | WIRE ND1002181, TYPE 2, CLASS 1, T2, 22AWG WHT WITH LETTER L, WHT WITH LETTER R 35 FT., 0 IN. TOTAL LENGTH. | | | | |
| 16 | 6 | MS3126F-24-615X (1897048-612) | CONNECTOR | | | | |
| 16 | 7 | MS3126F-22-55PW (1897045-551) | CONNECTOR | | | | |
| 10 | 1 | 1010411- | CONNECTOR | | | | |
| 10 | 25 | 1000243- | 3 FERRULE, ELECT. COND. | | | | |
| 10 | 25 | 1000242- | 2 FERRULE, ELECT. COND. | | | | |
| 10 | 9 | 1000243- | 8 FERRULE, ELECT. COND. | | | | |
| 10 | 9 | 1000242- | 7 FERRULE, ELECT. COND. | | | | |
| 10 | 3 | 1000243- | 11 FERRULE, ELECT. COND. | | | | |
| 10 | 3 | 1000242- | 11 FERRULE, ELECT. COND. | | | | |
| 10 | 6 | 1010490-196 | INSULATION, SLEEVING, ELECT. | | | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | | |
| | | SCALE-NONE | REV LTR | F | SHEET 5 OF 22 | | |

| GJK | | | CABLE W-58 | | F | 1900998 |
|---------|------|-----|---|---|---------|---------------|
| PENNANT | | | LIST OF MATERIALS | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | | |
| 10 | 16 | 33 | 1010490-198 | INSULATION, SLEEVING, ELECT. | | |
| 10 | 17 | 25 | 1010490-200 | INSULATION, SLEEVING, ELECT. | | |
| 10 | 18 | 9 | 1010490-258 | INSULATION, SLEEVING, ELECT. | | |
| 10 | 19 | 1 | 1016128-011 | BAND, IDENTIFICATION | | |
| 10 | 20 | 3 | 1016128-041 | BAND, IDENTIFICATION | | |
| 10 | 21 | 9 | 1016006-802 | SPlice REDUCER | | |
| 10 | 22 | 108 | 1010464-2 | CONNECTOR, CONTACT, PIN | | |
| | 23 | AR | MIL-T-713 | LACING, TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | |
| | 24 | 1 | 1900998-006 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.125 IN. DIA X 13 FT. 0 IN. TOT. LG. | | |
| | 25 | 2 | 1900998-007 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.0 IN. DIA X 6 FT. 0 IN. TOTAL LG. | | |
| 10 | 26 | 1 | 1016184-802 | TRANSITION, HARNESS, 3 FINGER, HEAT SHRINK | | |
| 20 | 27 | | | CONNECTOR CONTACT, SOCKET | | |
| 21 | 28 | | | CONNECTOR CONTACT, PIN | | |
| 10 | 29 | 4 | 1010490-188 | INSULATION, SLEEVING, ELECT. | | |
| 22 | 30 | AR | 1897147-106-108-112 | CABLE CLAMP SLEEVE | | |
| 10 | 31 | 1 | 1016282-24 | RUBBER GROMMET | | |
| 10 | 32 | 1 | 1016282-22 | RUBBER GROMMET | | |
| | | | MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | |
| | | | SCALE-NONE | REV LTR | F | SHEET 6 OF 22 |

| | | | | | |
|---------|------|-------------------|---|---|---------|
| 6JK | | CABLE W-58 | | F | 1900998 |
| PENNAWT | | LIST OF MATERIALS | | | |
| NOTE | ITEM | QTY | PART NO | DESCRIPTION | |
| 10 | 33 | 1 | 1015902- 46 | TERMINAL LUG | |
| | 34 | 9 | 1900998-008 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH 300N-2500222 | |
| | 35 | 2 | MS24055-2 | CONNECTOR | |
| | 36 | 2 | MS24018-1 | CONNECTOR HOOD | |
| | | | MANUFACTURED BY SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| | | | SCALE-NONE | REV LTR | F |
| | | | SHEET 7 OF 22 | | |

| | | | | | | | | | | | | | | | | | | |
|---------------------|--|------------|--|---------------------|--|--|--|--|---------------------|--|--|---|--|---------------|--|--|--|--|
| GJK | | CABLE W-58 | | | | | | | | | | F | | 1900998 | | | | |
| CONDUCTOR | | | | FROM | | | | | | | | | | TO | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION | | | | |
| STEP WIRE OR JACKET | | | | STEP WIRE OR JACKET | | | | | STEP WIRE OR JACKET | | | | | TERMINATION | | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | |
| ITEM NO. | | | | ITEM NO. | | | | | ITEM NO. | | | | | ITEM NO. | | | | |
| A 1 1 | | | | PA- 1 | | | | | 25M | | | | | 33 | | | | |
| A 2 | | | | DELETED | | | | | | | | | | P3- 91 | | | | |
| A 2A | | | | DELETED | | | | | | | | | | 22M | | | | |
| A 2L | | | | DELETED | | | | | | | | | | 22 | | | | |
| A 2R | | | | DELETED | | | | | | | | | | | | | | |
| A 3 | | | | DELETED | | | | | | | | | | | | | | |
| A 3A | | | | DELETED | | | | | | | | | | | | | | |
| A 3M | | | | DELETED | | | | | | | | | | | | | | |
| A 4 2 | | | | 250 | | | | | 200 | | | | | A 17 7A | | | | |
| | | | | | | | | | | | | | | | | | | |
| A 4A 1 | | | | SHLD A4 | | | | | 37M | | | | | E1 | | | | |
| A 4M | | | | P1-E | | | | | 22M | | | | | P3- 54 | | | | |
| A 5 1 | | | | P1-F | | | | | 22M | | | | | P3- 26 | | | | |
| A 6 1 | | | | P1-G | | | | | 22M | | | | | P3- 83 | | | | |
| A 7 3 | | | | 250 | | | | | 200 | | | | | A 18 7A | | | | |
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GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|--|----------------|-------------|-----|---------------------|---------------|------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13 | 1 | P1-V | 22N | 27 | | P3- 1 | 22N | 22 | |
| A 14 | 1 | P1-W | 22N | 27 | | P3- 60 | 22N | 22 | |
| A 15 | 1 | P1-X | 22N | 27 | | P3- 2 | 22N | 22 | |
| A 16 | 1 | P1-Y | 22N | 27 | | P3- 96 | 22N | 22 | |
| A 17 | 1 | P1-Z | 22N | 27 | | P3- 95 | 22N | 22 | |
| A 18 | 1 | P1-AA | 22N | 27 | | E4 | 37N | | |
| A 19 | 1 | P1-B* | 22N | 27 | | P3- 93 | 22N | 22 | |
| A 20 | 1 | P1-C* | 22N | 27 | | P3- 51 | 22N | 22 | |
| A 21 | 1 | P1-D* | 22N | 27 | | P3-106 | 22N | 22 | |
| A 22 | 1 | P1-E* | 22N | 27 | | P3- 77 | 22N | 22 | |
| A 23 | 1 | P1-F* | 22N | 27 | | P3- 65 | 22N | 22 | |
| A 24 | 2 | | 280 250 9 10 5 | | | | 280 250 | A 17 | 7A |
| A 24A | 1 | SHLD A24 | 37N | | | E2 | 37N | | |
| A 24M | 1 | P1-G* | 22N | 27 | | P3- 85 | 22N | 22 | |
| A 25 | 2 | | 280 250 9 10 5 | | | | 280 250 | A 17 | 7A |
| A 25A | 1 | SHLD A25 | 37N | | | E2 | 37N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | HAWTHORNE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | SCALE - NONE REV LTR F | |
| | | | | | | | | SHEET 10 OF 22 | |

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|--|----------------|-------------|-----|---------------------|---------------|------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 25M | 1 | P1-H* | 22N | 27 | | P3- 98 | 22N | 22 | |
| A 26 | 1 | P1-I* | 22N | 27 | | P3- 42 | 22N | 22 | |
| A 27 | 5 | | | | | | | A 29 | |
| A 27L | 1 | P1-K* | 22N | 27 | | P3- 69 | 22N | 22 | |
| A 27R | 1 | P1-J* | 22N | 27 | | P3- 80 | 22N | 22 | |
| A 28 | 2 | | 280 250 9 10 5 | | | | 280 250 | A 17 | 7A |
| A 28A | 1 | SHLD A28 | 37N | | | E2 | 37N | | |
| A 28M | 1 | P1-M* | 22N | 27 | | P3- 92 | 22N | 22 | |
| A 29 | 2 | | 280 250 9 10 5 | | | | 280 250 | A 17 | 7A |
| A 29A | 1 | SHLD A29 | 37N | | | E2 | 37N | | |
| A 29M | 1 | P1-N* | 22N | 27 | | P3- 74 | 22N | 22 | |
| A 30 | 2 | | 280 250 9 10 5 | | | | 280 250 | A 17 | 7A |
| A 30A | 1 | SHLD A30 | 37N | | | E2 | 37N | | |
| A 30M | 1 | P1-P* | 22N | 27 | | P3- 90 | 22N | 22 | |
| A 31 | 2 | | 280 250 9 10 5 | | | | 280 250 | A 17 | 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | HAWTHORNE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | SCALE - NONE REV LTR F | |
| | | | | | | | | SHEET 11 OF 22 | |

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|--|-----------------|-------------|-----|---------------------|---------------|------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 31A | 1 | SHLD A31 | 37N | | | E2 | 37N | | |
| A 31M | 1 | P1-O* | 22N | 27 | | P3-100 | 22N | 22 | |
| A 32 | 5 | | 330 300 11 12 5 | | | | 330 300 | A 16 | 7A |
| A 32A | 1 | SHLD A32 | 37N | | | E3 | 37N | | |
| A 32L | 1 | P1-S* | 22N | 27 | | P3- 47 | 22N | 22 | |
| A 32R | 1 | P1-R* | 22N | 27 | | P3- 56 | 22N | 22 | |
| A 33 | 5 | | 330 300 11 12 5 | | | | 330 300 | A 16 | 7A |
| A 33A | 1 | SHLD A33 | 37N | | | E3 | 37N | | |
| A 33L | 1 | P1-U* | 22N | 27 | | P3- 57 | 22N | 22 | |
| A 33R | 1 | P1-T* | 22N | 27 | | P3- 48 | 22N | 22 | |
| A 34 | 1 | P1-V* | 22N | 27 | | P3- 36 | 22N | 22 | |
| A 35 | 1 | P1-W* | 22N | 27 | | P3- 94 | 22N | 22 | |
| A 36 | 4 | | 330 300 11 14 5 | | | | 330 300 | A 15 | 7A |
| A 36A | 1 | SHLD A36 | 37N | | | E3 | 37N | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | HAWTHORNE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | SCALE - NONE REV LTR F | |
| | | | | | | | | SHEET 12 OF 22 | |

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|--|-----------------|-------------|-----|---------------------|---------------|------------------------|-----|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STEP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 36L | 1 | P1-Y* | 22N | 27 | | P3- 17 | 22N | 22 | |
| A 36M | 1 | P1-X* | 22N | 27 | | P3- 3 | 22N | 22 | |
| A 36Y | 1 | P1-Z* | 22N | 27 | | P3- 16 | 22N | 22 | |
| A 37 | 5 | | 330 300 11 12 5 | | | | 330 300 | A 16 | 7A |
| A 37A | 1 | SHLD A37 | 37N | | | E3 | 37N | | |
| A 37L | 1 | P1-BB | 22N | 27 | | P3- 27 | 22N | 22 | |
| A 37R | 1 | P1-AA | 22N | 27 | | P3- 13 | 22N | 22 | |
| A 38 | 4 | | 330 300 11 14 5 | | | | 330 300 | A 15 | 7A |
| A 38A | 1 | SHLD A38 | 37N | | | E3 | 37N | | |
| A 38L | 1 | P1-DD | 22N | 27 | | P3- 6 | 22N | 22 | |
| A 38M | 1 | P1-CC | 22N | 27 | | P3- 20 | 22N | 22 | |
| A 38Y | 1 | P1-EE | 22N | 27 | | P3- 7 | 22N | 22 | |
| A 39 | 4 | | 330 300 11 14 5 | | | | 330 300 | A 15 | 7A |
| A 39A | 1 | SHLD A39 | 37N | | | E3 | 37N | | |
| A 39L | 1 | P1-GG | 22N | 27 | | P3- 5 | 22N | 22 | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | |
| | | HAWTHORNE SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | SCALE - NONE REV LTR F | |
| | | | | | | | | SHEET 13 OF 22 | |

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------------|---------|---------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STEP WIRE OR JACKET | CIRCUIT POINT | | | STEP WIRE OR JACKET | CIRCUIT POINT | | |
| A 39M | 1 | P1-FF | 22N | 27 | | P3- 4 | 22N | 22 | |
| A 39Y | 1 | P1-MM | 22N | 27 | | P3- 18 | 22N | 22 | |
| A 40 | 2 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 7A |
| A 40A | 1 | SHLD A40 | 37N | | | E5 | 37N | | |
| A 40M | 1 | P2-A | 22N | 28 | | P3- 39 | 22N | 22 | |
| A 41 | 2 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 7A |
| A 41A | 1 | SHLD A41 | 37N | | | E5 | 37N | | |
| A 41M | 1 | P2-B | 22N | 28 | | P3- 73 | 22N | 22 | |
| A 42 | 2 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 7A |
| A 42A | 1 | SHLD A42 | 37N | | | E5 | 37N | | |
| A 42M | 1 | P2-C | 22N | 28 | | P3- 10 | 22N | 22 | |
| A 43 | 5 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 7A |
| A 43A | 1 | SHLD A43 | 37N | | | E5 | 37N | | |
| A 43L | 1 | P2-E | 22N | 28 | | P3- 23 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 14 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------------|---------|---------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STEP WIRE OR JACKET | CIRCUIT POINT | | | STEP WIRE OR JACKET | CIRCUIT POINT | | |
| A 43R | 1 | P2-D | 22N | 28 | | P3- 24 | 22N | 22 | |
| A 44 | 5 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 7A |
| A 44A | 1 | SHLD A44 | 37N | | | E5 | 37N | | |
| A 44L | 1 | P2-G | 22N | 28 | | P3- 34 | 22N | 22 | |
| A 44R | 1 | P2-F | 22N | 28 | | P3- 35 | 22N | 22 | |
| A 45 | 5 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 7A |
| A 45A | 1 | SHLD A45 | 37N | | | E5 | 37N | | |
| A 45L | 1 | P2-J | 22N | 28 | | P3- 33 | 22N | 22 | |
| A 45R | 1 | P2-H | 22N | 28 | | P3- 19 | 22N | 22 | |
| A 46 | 1 | P2-K | 22N | 28 | | P3- 99 | 22N | 22 | |
| A 47 | | DELETED | | | | | | | |
| A 47A | | DELETED | | | | | | | |
| A 47L | | DELETED | | | | | | | |
| A 47R | | DELETED | | | | | | | |
| A 48 | | DELETED | | | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 15 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------------|--------|---------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STEP WIRE OR JACKET | CIRCUIT POINT | | | STEP WIRE OR JACKET | CIRCUIT POINT | | |
| A 48A | | DELETED | | | | | | | |
| A 48M | | DELETED | | | | | | | |
| A 49 | 1 | P2-R | 22N | 28 | | P3- 14 | 22N | 22 | |
| A 50 | 1 | P2-S | 22N | 28 | | P3- 50 | 22N | 22 | |
| A 51 | 1 | P2-T | 22N | 28 | | P3- 21 | 22N | 22 | |
| A 52 | 1 | P2-U | 22N | 28 | | P3- 70 | 22N | 22 | |
| A 53 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| A 53A | 1 | SHLD A53 | 37N | | | E6 | 37N | | |
| A 53M | 1 | P2-V | 22N | 28 | | P3- 82 | 22N | 22 | |
| A 54 | 1 | P2-W | 22N | 28 | | P3- 58 | 22N | 22 | |
| A 55 | 1 | P2-X | 22N | 28 | | P3- 59 | 22N | 22 | |
| A 56 | 1 | P2-Y | 22N | 28 | | P3- 66 | 22N | 22 | |
| A 57 | 1 | P2-Z | 22N | 28 | | P3- 78 | 22N | 22 | |
| A 58 | 1 | P2-A0 | 22N | 28 | | E9 | 37N | | |
| A 59 | 1 | P2-B0 | 22N | 28 | | P3- 81 | 22N | 22 | |
| A 60 | 1 | P2-C0 | 22N | 28 | | P3- 79 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 16 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|-----------|----------|---------------------|---------------|-------------------|--------|---------------------|---------------|-------------------|---------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. |
| | | STEP WIRE OR JACKET | CIRCUIT POINT | | | STEP WIRE OR JACKET | CIRCUIT POINT | | |
| A 61 | 1 | P2-D0 | 22N | 28 | | P3- 68 | 22N | 22 | |
| A 62 | 1 | P2-E0 | 22N | 28 | | P3- 67 | 22N | 22 | |
| A 63 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| A 63A | 1 | SHLD A63 | 37N | | | E6 | 37N | | |
| A 63M | 1 | P2-F0 | 22N | 28 | | P3- 89 | 22N | 22 | |
| A 64 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| A 64A | 1 | SHLD A64 | 37N | | | E6 | 37N | | |
| A 64M | 1 | P2-G0 | 22N | 28 | | P3-104 | 22N | 22 | |
| A 65 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| A 65A | 1 | SHLD A65 | 37N | | | E6 | 37N | | |
| A 65M | 1 | P2-H0 | 22N | 28 | | P3- 97 | 22N | 22 | |
| A 66 | 2 | | 330 | 300 | 9 10 5 | | 330 | 300 | A 17 7A |
| A 66A | 1 | SHLD A66 | 37N | | | E7 | 37N | | |
| A 66M | 1 | P2-J0 | 22N | 28 | | P3- 84 | 22N | 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 17 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|----------------|---------------------|-----------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | NO. | STOP WIRE OR JACKET | SPC. NO. | STOP WIRE OR JACKET | SPC. NO. |
| CONDUCTOR | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 67 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 67A | 1 | SHLD A67 | 37N | | 37N |
| A 67M | | P2-K* | 22N 28 | P3-102 | 22N 22 |
| A 68 | 1 | P2-M* | 22N 28 | P3-37 | 22N 22 |
| A 69 | 1 | P2-N* | 22N 28 | P3-34 | 22N 22 |
| A 70 | 1 | P2-O* | 22N 28 | P3-31 | 22N 22 |
| A 71 | 1 | P2-P* | 22N 28 | P3-35 | 22N 22 |
| A 72 | 1 | P2-Q* | 22N 28 | P3-46 | 22N 22 |
| A 72 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 72A | 1 | SHLD A72 | 37N | | 37N |
| A 72M | | P2-T* | 22N 28 | P3-88 | 22N 22 |
| A 73 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 73A | 1 | SHLD A73 | 37N | | 37N |
| A 73M | | P2-U* | 22N 28 | P3-87 | 22N 22 |
| A 74 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900998 | |
| | | SCALE - NONE | | REV LTR F | |
| | | | | SHEET 18 OF 22 | |

GJK CABLE W-58 F 1900998

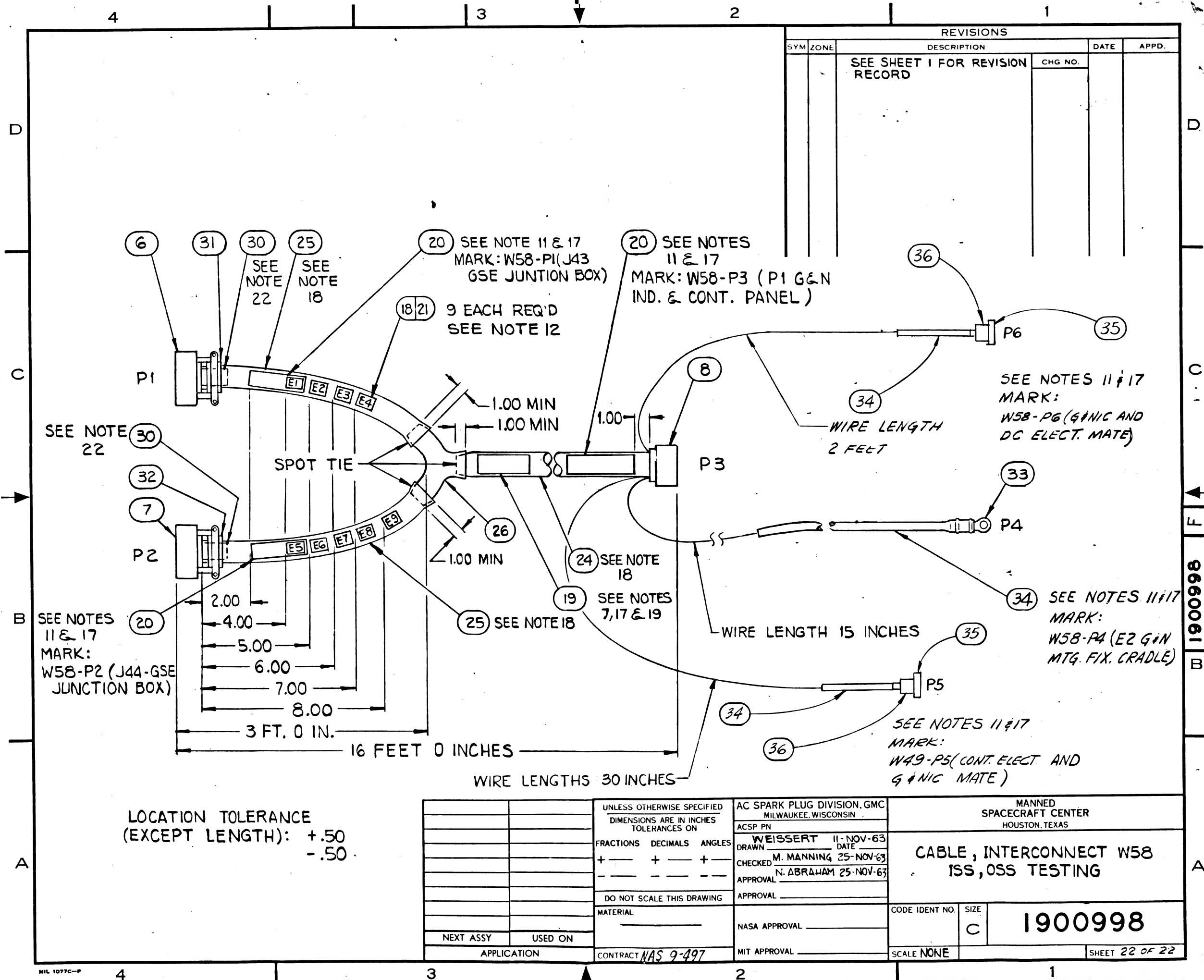
| CONDUCTOR | | FROM | | TO | |
|---|----------|--|----------------|---------------------|-----------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | NO. | STOP WIRE OR JACKET | SPC. NO. | STOP WIRE OR JACKET | SPC. NO. |
| CONDUCTOR | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 74A | 1 | SHLD A74 | 37N | | 37N |
| A 74M | | P2-V* | 22N 28 | P3-101 | 22N 22 |
| A 75 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 75A | 1 | SHLD A75 | 37N | | 37N |
| A 75M | | P2-W* | 22N 28 | P3-76 | 22N 22 |
| A 76 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 76A | 1 | SHLD A76 | 37N | | 37N |
| A 76M | | P2-X* | 22N 28 | P3-75 | 22N 22 |
| A 77 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 77A | 1 | SHLD A77 | 37N | | 37N |
| A 77M | | P2-Y* | 22N 28 | P3-105 | 22N 22 |
| A 78 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 78A | 1 | SHLD A78 | 37N | | 37N |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900998 | |
| | | SCALE - NONE | | REV LTR F | |
| | | | | SHEET 19 OF 22 | |

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|----------------|---------------------|-----------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | NO. | STOP WIRE OR JACKET | SPC. NO. | STOP WIRE OR JACKET | SPC. NO. |
| CONDUCTOR | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 78M | | P2-AA | 22N 28 | P3-69 | 22N 22 |
| A 79 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 79A | 1 | SHLD A79 | 37N | | 37N |
| A 79M | | P2-BB | 22N 28 | P3-38 | 22N 22 |
| A 80 | 1 | P2-CC | 22N 28 | P3-72 | 22N 22 |
| A 81 | 1 | P2-DD | 22N 28 | P3-25 | 22N 22 |
| A 82 | 1 | E1 | 37N | E4 | 37N |
| A 83 | 1 | E2 | 37N | E4 | 37N |
| A 84 | 1 | E3 | 37N | E4 | 37N |
| A 85 | 1 | E5 | 37N | E9 | 37N |
| A 86 | 1 | E6 | 37N | E9 | 37N |
| A 87 | 1 | E7 | 37N | E9 | 37N |
| A 88 | 1 | E8 | 37N | E9 | 37N |
| A 89 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 89A | 1 | SHLD A89 | 37N | | 37N |
| A 89M | | P2-II* | 22N 28 | P3-103 | 22N 22 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900998 | |
| | | SCALE - NONE | | REV LTR F | |
| | | | | SHEET 20 OF 22 | |

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|---|----------|--|-------------|---------------------|-------------|
| INDIVIDUAL LENGTH | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| NUMBER | NO. | STOP WIRE OR JACKET | SPC. NO. | STOP WIRE OR JACKET | SPC. NO. |
| CONDUCTOR | NO. | CIRCUIT POINT | NO. | CIRCUIT POINT | NO. |
| A 90 | 1 | P3-D | 25N | P3-61 | 10N 22 |
| A 91 | 1 | P3-C | 25N | P3-62 | 10N 22 |
| A 92 | 1 | P3-B | 25N | P3-29 | 10N 22 |
| A 93 | 1 | P6-B | 25N | P3-63 | 10N 22 |
| A 94 | 1 | P6-C | 25N | P3-64 | 10N 22 |
| A 95 | 1 | P6-D | 25N | P3-84 | 10N 22 |
| A 96 | 1 | P6-E | 25N | P3-32 | 10N 22 |
| A 97 | 1 | P6-F | 25N | P3-44 | 10N 22 |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | |
| | | HANDED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A 1900998 | |
| | | SCALE - NONE | | REV LTR F | |
| | | | | SHEET 21 OF 22 | |



| APPLICATION | | REVISONS | | APPROVAL | |
|-------------|-------------|----------|--|------------|----------|
| NEXT ASSY | USED ON | S/N | DESCRIPTION | DATE | APPROVAL |
| 1M11308 | 1M44K05-011 | A | CHANGE IN ACCORDANCE WITH C.M. 1193777 | 4 FEB 64 | GG |
| | | B | CHANGE IN ACCORDANCE WITH 3 MAR 64 C.M. 15059 | 172 JJJ | W |
| | | C | CHANGE IN ACCORDANCE WITH 2 APR 64 C.M. 200712 | 64 JJJ | W |
| | | D | REVISED CUSTOMER DATA (V2 - 64) | 64 JJJ | W |
| | | E | CHANGE IN ACCORDANCE WITH C.M. 119330, 2062430 | 27 MAY 64 | R.B. CP |
| | | F | CHANGE IN ACCORDANCE WITH C.M. 197538, 740010618 | 8 JUNE 64 | R.B. |
| | | G | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | MEM |
| | | H | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | I | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | J | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | K | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | L | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | M | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | N | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | O | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | P | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | Q | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | R | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | S | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | T | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | U | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | V | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | W | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | X | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | Y | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | Z | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AA | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AB | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AC | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AD | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AE | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AF | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AG | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AH | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AI | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AJ | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AK | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AL | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AM | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AN | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AO | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AP | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AQ | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AR | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AS | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AT | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AU | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AV | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AW | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AX | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AY | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | AZ | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BA | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BB | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BC | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BD | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BE | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BF | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BG | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | BH | CHANGE IN ACCORDANCE WITH C.M. 157761 | 15 JUNE 64 | AK |
| | | | | | |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 15653 DATE

| PENNYANT | | LIST OF MATERIALS | | |
|----------|------|-------------------|-----------------------|--|
| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
| 10 | 16 | 3 | 1010490-198 | INSULATION, SLEEVING, ELECT. |
| 10 | 17 | 25 | 1010490-200 | INSULATION, SLEEVING, ELECT. |
| 10 | 18 | 9 | 1010490-258 | INSULATION, SLEEVING, ELECT. |
| 10 | 19 | 1 | 1016128-011 | BAND, IDENTIFICATION |
| 10 | 20 | 3 | 1016128-041 | BAND, IDENTIFICATION |
| 10 | 21 | 9 | 1016006-002 | SPICE REDUCER |
| 10 | 22 | 106 | 1010464- 2 | CONNECTOR, CONTACT, PIN |
| | 23 | AR | MIL-T-713 | LACING, TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) |
| | 24 | 1 | 1900998-006 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.125 IN. DIA X 13 FT. 0 IN. TOT. LG. |
| | 25 | 2 | 1900998-007 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.0 IN. DIA X 6 FT. 0 IN. TOTAL LG. |
| 10 | 26 | 1 | 1016184-002 | TRANSITION, HARNESS, 3 FINGER, HEAT SHRINK |
| 20 | 27 | | | CONNECTOR CONTACT, SOCKET |
| 21 | 28 | | | CONNECTOR CONTACT, PIN |
| 10 | 29 | 4 | 1010490-188 | INSULATION, SLEEVING, ELECT. |
| 22 | 30 | AR | 1897147-106.-108.-112 | CABLE CLAMP SLEEVE |
| 10 | 31 | 1 | 1016282- 24 | RUBBER GROMMET |
| 10 | 32 | 1 | 1016282- 22 | RUBBER GROMMET |

| | | |
|---|----------------------|--------------|
| DRAWING SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE: NONE | REV LTR | F |
| | | SHEET 6 OF 2 |

| PENNANT | | LIST OF MATERIALS | | |
|---------|------|-------------------|-------------|--|
| NOTE | ITEM | QTY | PART NO | DESCRIPTION |
| 10 | 33 | 1 | 1015902- 46 | TERMINAL LUG |
| | 36 | 3 | 1900998-008 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH 3000-10000 |
| | 35 | 2 | MS24055-2 | CONNECTOR |
| | 36 | 2 | MS24018-1 | CONNECTOR HOOD |

| | | | |
|--|---------|----------------------|--------------|
| WANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900998 |
| SCALE-NONE | REV LTR | F | SHEET 7 OF 2 |

| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|---|---|---------------------|---------------|-----|-----|-------------|----|-----|---------------------|---------------|---|----|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | | |
| NUMBER | ITEM NO. | 3 | 1 | STEP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 | ITEM NO. | 3 | 1 | STEP WIRE OR JACKET | CIRCUIT POINT | 2 | 1 |
| A | 1 | 1 | | PA- | 1 | 25M | 35 | P3- | 91 | 22M | 22 | | | |
| A | 2 | | | DELETED | | | | | | | | | | |
| | | | | DELETED | | | | | | | | | | |
| A | 2A | | | DELETED | | | | | | | | | | |
| A | 2L | | | DELETED | | | | | | | | | | |
| A | 2R | | | DELETED | | | | | | | | | | |
| A | 3 | | | DELETED | | | | | | | | | | |
| | | | | DELETED | | | | | | | | | | |
| A | 3A | | | DELETED | | | | | | | | | | |
| A | 3W | | | DELETED | | | | | | | | | | |
| A | 4 | 2 | | | | 230 | 200 | 9 | 10 | | 230 | 200 | A | 17 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| A | 4A | 1 | | SHLD A4 | | 37M | | E1 | | 37M | | | | |
| A | 4W | | | P1-E | | 22M | 27 | P3- | 54 | 22M | 22 | | | |
| A | 5 | 1 | | P1-F | | 22M | 27 | P3- | 26 | 22M | 22 | | | |
| A | 6 | 1 | | P1-G | | 22M | 27 | P3- | 63 | 22M | 22 | | | |
| A | 7 | 3 | | | | 230 | 200 | 12 | 12 | | 230 | 200 | A | 16 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANUFACTURED BY
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900998

SCALE - NONE REV LTR F SHEET A OF 22

| CONDUCTOR | | | FROM | | | TO | | |
|-------------------|-----|---|---------------------|-----|-------------|---------------------|-----|-------------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION | | |
| ITEM NO. | NO. | 3 | STEP WIRE OR JACKET | 2 | 1 | STEP WIRE OR JACKET | 2 | 1 |
| NUMBER | NO. | 3 | CIRCUIT POINT | 2 | 1 | CIRCUIT POINT | 2 | 1 |
| A 7A | 1 | | SHLD A7 | 37N | | E1 | 37N | |
| A 7L | 1 | | P1-J | 22N | 27 | P3- 12 | 22N | 27 |
| A 7R | 1 | | P1-H | 22N | 27 | P3- 11 | 22N | 27 |
| A 8 | 5 | | | | A 29 | | | A 29 |
| A 8L | 1 | | P1-L | 22N | 27 | P3- 40 | 22N | 27 |
| A 8R | 1 | | P1-K | 22N | 27 | P3- 41 | 22N | 27 |
| A 9 | 1 | | P1-M | 22N | 27 | P3- 43 | 22N | 27 |
| A 10 | 1 | | P1-P | 22N | 27 | P3- 71 | 22N | 27 |
| A 11 | 3 | | | 230 | 200 11 12 5 | | 230 | 200 A 16 7A |
| | | | | | A 16 | | | |
| A 11A | 1 | | SHLD A11 | 37N | | E1 | 37N | |
| A 11L | 1 | | P1-S | 22N | 27 | P3- 53 | 22N | 27 |
| A 11R | 1 | | DELETED | | | | | |
| A 12 | 3 | | | 230 | 200 11 12 5 | | 230 | 200 A 16 7A |
| | | | | | A 16 | | | |
| A 12A | 1 | | SHLD A12 | 37N | | E1 | 37N | |
| A 12L | 1 | | P1-U | 22N | 27 | P3- 52 | 22N | 27 |
| A 12R | 1 | | DELETED | | | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900998

SCALE - NONE

REV LTR F

SHEET 9 OF 2

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------------------|------------------------|----------------------------------|------------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 |
| A 13 | 1 | P1-V | 22N | P3-1 | 22N |
| A 14 | 1 | P1-W | 22N | P3-60 | 22N |
| A 15 | 1 | P1-X | 22N | P3-2 | 22N |
| A 16 | 1 | P1-Y | 22N | P3-96 | 22N |
| A 17 | 1 | P1-Z | 22N | P3-95 | 22N |
| A 18 | 1 | P1-A* | 22N | E4 | 37N |
| A 19 | 1 | P1-B* | 22N | P3-93 | 22N |
| A 20 | 1 | P1-C* | 22N | P3-51 | 22N |
| A 21 | 1 | P1-D* | 22N | P3-106 | 22N |
| A 22 | 1 | P1-E* | 22N | P3-77 | 22N |
| A 23 | 1 | P1-F* | 22N | P3-65 | 22N |
| A 24 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 24A | 1 | SHLD A24 | 37N | E2 | 37N |
| A 24M | 1 | P1-G* | 22N | P3-85 | 22N |
| A 25 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 25A | 1 | SHLD A25 | 37N | E2 | 37N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR F SHEET 10 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------------------|------------------------|----------------------------------|------------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 |
| A 25M | 1 | P1-H* | 22N | P3-98 | 22N |
| A 26 | 1 | P1-I* | 22N | P3-42 | 22N |
| A 27 | 5 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 27L | 1 | P1-K* | 22N | P3-69 | 22N |
| A 27R | 1 | P1-J* | 22N | P3-80 | 22N |
| A 28 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 28A | 1 | SHLD A28 | 37N | E2 | 37N |
| A 28M | 1 | P1-M* | 22N | P3-92 | 22N |
| A 29 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 29A | 1 | SHLD A29 | 37N | E2 | 37N |
| A 29M | 1 | P1-N* | 22N | P3-74 | 22N |
| A 30 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 30A | 1 | SHLD A30 | 37N | E2 | 37N |
| A 30M | 1 | P1-P* | 22N | P3-90 | 22N |
| A 31 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR F SHEET 11 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------------------|------------------------|----------------------------------|------------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 |
| A 31A | 1 | SHLD A31 | 37N | E2 | 37N |
| A 31M | 1 | P1-Q* | 22N | P3-10 | 22N |
| A 32 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 32A | 1 | SHLD A32 | 37N | P1-S* | 22N |
| A 32L | 1 | DELETED | | | |
| A 32M | 1 | P1-R* | 22N | P3-56 | 22N |
| A 33 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 33A | 1 | SHLD A33 | 37N | P1-U* | 22N |
| A 33M | 1 | P1-T* | 22N | P3-48 | 22N |
| A 34 | 1 | P1-V* | 22N | P3-36 | 22N |
| A 35 | 1 | P1-W* | 22N | P3-94 | 22N |
| A 36 | 4 | | 330 300 13 14 5 | | 330 300 A 15 7A |
| A 36A | 1 | SHLD A36 | 37N | E3 | 37N |
| A 36L | 1 | P1-Y* | 22N | P3-17 | 22N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR F SHEET 12 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|----------------------------------|------------------------|----------------------------------|------------------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 | CUT WIRE OR SHIELD ITEM NO. 1 | TERMINATION SPEC. 2 |
| A 36L | 1 | P1-Y* | 22N | P3-17 | 22N |
| A 36R | 1 | P1-X* | 22N | P3-9 | 22N |
| A 36Y | 1 | P1-Z* | 22N | P3-16 | 22N |
| A 37 | 3 | | 330 300 13 14 5 | | 330 300 A 16 7A |
| A 37A | 1 | SHLD A37 | 37N | E3 | 37N |
| A 37L | 1 | P1-OB | 22N | P3-27 | 22N |
| A 37R | 1 | P1-AA | 22N | P3-13 | 22N |
| A 38 | 4 | | 330 300 13 14 5 | | 330 300 A 15 7A |
| A 38A | 1 | SHLD A38 | 37N | E3 | 37N |
| A 38L | 1 | P1-DD | 22N | P3-6 | 22N |
| A 38R | 1 | P1-CC | 22N | P3-20 | 22N |
| A 38Y | 1 | P1-EE | 22N | P3-7 | 22N |
| A 39 | 4 | | 330 300 13 14 5 | | 330 300 A 15 7A |
| A 39A | 1 | SHLD A39 | 37N | E3 | 37N |
| A 39L | 1 | P1-GG | 22N | P3-5 | 22N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE: NONE REV LTR F SHEET 13 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---------------------|---------------------|---------------------|---------------------|
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | TERMINATION SPEC. 1 | STEP WIRE OR JACKET | TERMINATION SPEC. 1 |
| A 39R | 1 | P1-FF | 27N | P3- 6 | 22N |
| A 39Y | 1 | P1-HH | 27N | P3- 10 | 22N |
| A 40 | 2 | | 230 200 9 10 5 | | 230 200 A 17 7A |
| A 40A | 1 | SHLD A40 | 37N | E5 | 37N |
| A 40V | 1 | P2-A | 22N | P3- 39 | 22N |
| A 41 | 2 | | 230 200 9 10 5 | | 230 200 A 17 7A |
| A 41A | 1 | SHLD A41 | 37N | E5 | 37N |
| A 41L | 1 | P2-B | 22N | P3- 73 | 22N |
| A 42 | 2 | | 230 200 9 10 5 | | 230 200 A 17 7A |
| A 42A | 1 | SHLD A42 | 37N | E5 | 37N |
| A 42V | 1 | P2-C | 22N | P3- 10 | 22N |
| A 43 | 3 | | 230 200 11 12 5 | | 230 200 A 16 7A |
| A 43A | 1 | SHLD A43 | 37N | E5 | 37N |
| A 43L | 1 | P2-E | 22N | P3- 23 | 22N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 14 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---------------------|---------------------|---------------------|---------------------|
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | TERMINATION SPEC. 1 | STEP WIRE OR JACKET | TERMINATION SPEC. 1 |
| A 43R | 1 | P2-D | 22N | P3- 24 | 22N |
| A 44 | 3 | | 230 200 11 12 5 | | 230 200 A 16 7A |
| A 44A | 1 | SHLD A44 | 37N | E5 | 37N |
| A 44L | 1 | P2-G | 22N | P3- 34 | 22N |
| A 44R | 1 | P2-F | 22N | P3- 35 | 22N |
| A 45 | 3 | | 230 200 11 12 5 | | 230 200 A 16 7A |
| A 45A | 1 | SHLD A45 | 37N | E5 | 37N |
| A 45L | 1 | P2-J | 22N | P3- 33 | 22N |
| A 45R | 1 | P2-H | 22N | P3- 19 | 22N |
| A 46 | 1 | P2-K | 22N | P3- 99 | 22N |
| A 47 | | DELETED | | | |
| A 47A | | DELETED | | | |
| A 47L | | DELETED | | | |
| A 47R | | DELETED | | | |
| A 48 | | DELETED | | | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 15 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---------------------|---------------------|---------------------|---------------------|
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | TERMINATION SPEC. 1 | STEP WIRE OR JACKET | TERMINATION SPEC. 1 |
| A 48A | | DELETED | | | |
| A 48V | | DELETED | | | |
| A 49 | 1 | P2-R | 22N | P3- 14 | 22N |
| A 50 | 1 | P2-S | 22N | P3- 50 | 22N |
| A 51 | 1 | P2-T | 22N | P3- 21 | 22N |
| A 52 | 1 | P2-U | 22N | P3- 70 | 22N |
| A 53 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 53A | 1 | SHLD A53 | 37N | E6 | 37N |
| A 53V | 1 | P2-V | 22N | P3- 82 | 22N |
| A 54 | 1 | P2-W | 22N | P3- 58 | 22N |
| A 55 | 1 | P2-X | 22N | P3- 59 | 22N |
| A 56 | 1 | P2-Y | 22N | P3- 66 | 22N |
| A 57 | 1 | P2-Z | 22N | P3- 78 | 22N |
| A 58 | 1 | P2-AA | 22N | P3- 79 | 22N |
| A 59 | 1 | P2-BB | 22N | P3- 81 | 22N |
| A 60 | 1 | P2-CC | 22N | P3- 79 | 22N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 16 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|---------------------|---------------------|---------------------|---------------------|
| NUMBER | ITEM NO. | STEP WIRE OR JACKET | TERMINATION SPEC. 1 | STEP WIRE OR JACKET | TERMINATION SPEC. 1 |
| A 61 | 1 | P2-DD | 22N | P3- 68 | 22N |
| A 62 | 1 | P2-EE | 22N | P3- 67 | 22N |
| A 63 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 63A | 1 | SHLD A63 | 37N | E6 | 37N |
| A 63V | 1 | P2-FF | 22N | P3- 89 | 22N |
| A 64 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 64A | 1 | SHLD A64 | 37N | E6 | 37N |
| A 64V | 1 | P2-GG | 22N | P3-104 | 22N |
| A 65 | 2 | | 280 250 9 10 5 | | 280 250 A 17 7A |
| A 65A | 1 | SHLD A65 | 37N | E6 | 37N |
| A 65V | 1 | P2-HH | 22N | P3- 97 | 22N |
| A 66 | 2 | | 330 300 9 10 5 | | 330 300 A 17 7A |
| A 66A | 1 | SHLD A66 | 37N | E7 | 37N |
| A 66V | 1 | P2-II | 22N | P3- 86 | 22N |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS
SCALE-NONE REV LTR F SHEET 17 OF 22

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--|---------------|--------------------|-------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| 1 | 2 | 3 | 4 | 5 | 6 |
| A 67 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 67A | 1 | SHLD A67 37N | E7 | 37N | |
| A 67M | 1 | P2-K* 22N 28 | P3-102 22N 22 | | |
| A 68 | 1 | P2-M* 22N 28 | P3-37 22N 22 | | |
| A 69 | 1 | P2-N* 22N 28 | P3-30 22N 22 | | |
| A 70 | 1 | P2-O* 22N 28 | P3-31 22N 22 | | |
| A 71 | 1 | P2-P* 22N 28 | P3-55 22N 22 | | |
| A 72 | 1 | P2-S* 22N 28 | P3-46 22N 22 | | |
| A 72 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 72A | 1 | SHLD A72 37N | E7 | 37N | |
| A 72M | 1 | P2-T* 22N 28 | P3-88 22N 22 | | |
| A 73 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 73A | 1 | SHLD A73 37N | E7 | 37N | |
| A 73M | 1 | P2-U* 22N 28 | P3-87 22N 22 | | |
| A 74 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| | | SCALE-NONE | | REV LTR F | |
| | | | | SHEET 18 OF 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

GJK CABLE W-58 F 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--|---------------|--------------------|-------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| 1 | 2 | 3 | 4 | 5 | 6 |
| A 74A | 1 | SHLD A74 37N | E7 | 37N | |
| A 74M | 1 | P2-V* 22N 28 | P3-101 22N 22 | | |
| A 75 | 2 | 330 300 9 10 5 | A 16 | 330 300 A 17 7A | |
| A 75A | 1 | SHLD A75 37N | E7 | 37N | |
| A 75M | 1 | P2-W* 22N 28 | P3-76 22N 22 | | |
| A 76 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 76A | 1 | SHLD A76 37N | E8 | 37N | |
| A 76M | 1 | P2-X* 22N 28 | P3-75 22N 22 | | |
| A 77 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 77A | 1 | SHLD A77 37N | E8 | 37N | |
| A 77M | 1 | P2-Y* 22N 28 | P3-105 22N 22 | | |
| A 78 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 78A | 1 | SHLD A78 37N | E8 | 37N | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| | | SCALE-NONE | | REV LTR F | |
| | | | | SHEET 19 OF 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

GJK CABLE W-58 F 1900998

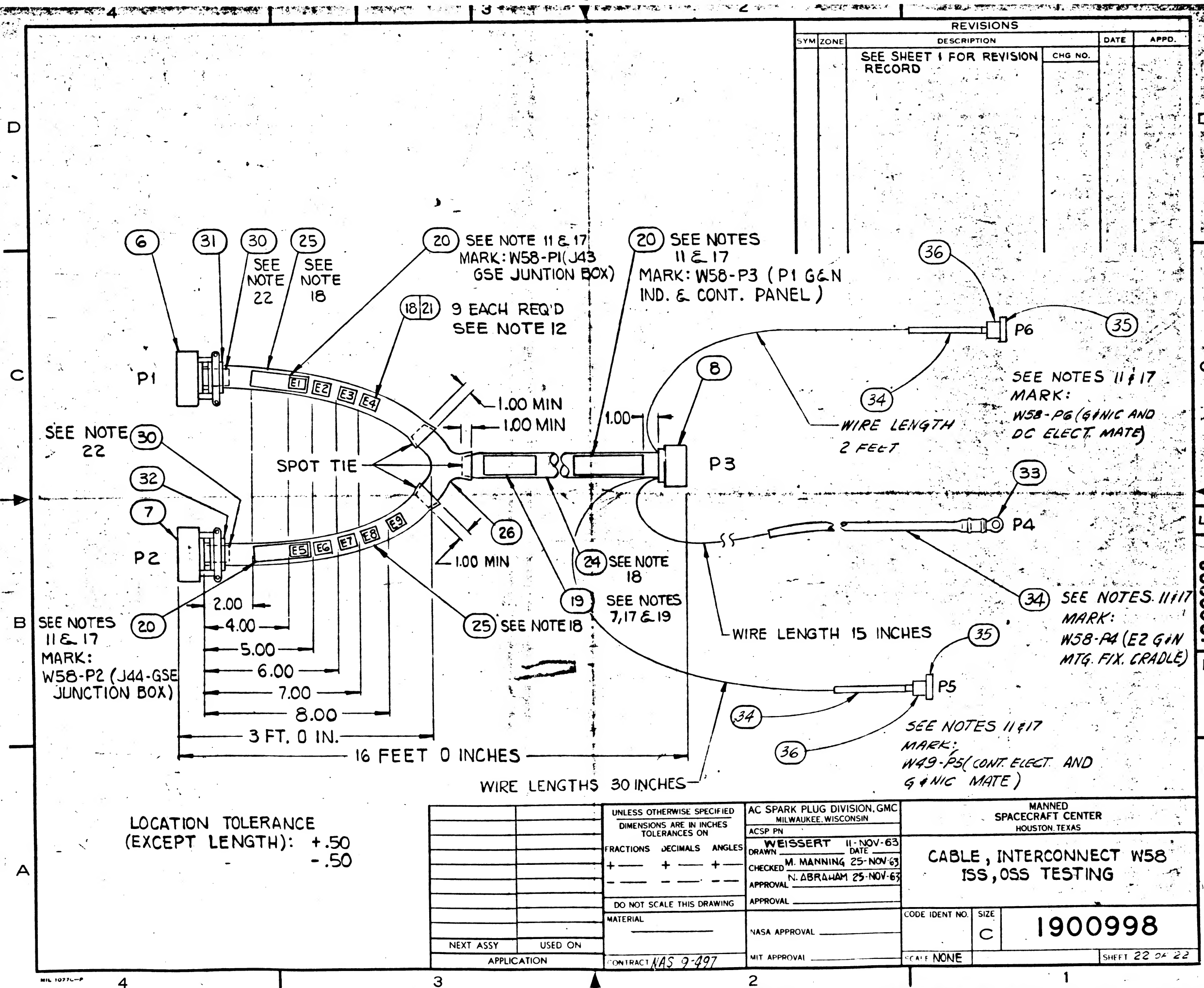
| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--|---------------|--------------------|-------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| 1 | 2 | 3 | 4 | 5 | 6 |
| A 78M | 1 | P2-AA 22N 28 | P3-49 22N 22 | | |
| A 79 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 79A | 1 | SHLD A79 37N | E8 | 37N | |
| A 79M | 1 | P2-BB 22N 28 | P3-38 22N 22 | | |
| A 80 | 1 | P2-CC 22N 28 | P3-72 22N 22 | | |
| A 81 | 1 | P2-DD 22N 28 | P3-25 22N 22 | | |
| A 82 | 1 | E1 37N | E4 37N | | |
| A 83 | 1 | E2 37N | E4 37N | | |
| A 84 | 1 | E3 37N | E4 37N | | |
| A 85 | 1 | E5 37N | E9 37N | | |
| A 86 | 1 | E6 37N | E9 37N | | |
| A 87 | 1 | E7 37N | E9 37N | | |
| A 88 | 1 | E8 37N | E9 37N | | |
| A 89 | 2 | 330 350 9 10 5 | A 16 | 330 350 A 17 7A | |
| A 89A | 1 | SHLD A89 37N | E8 | 37N | |
| A 89M | 1 | P2-EE 22N 28 | P3-103 22N 22 | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| | | SCALE-NONE | | REV LTR F | |
| | | | | SHEET 20 OF 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

GJK CABLE W-58 G 1900998

| CONDUCTOR | | FROM | | TO | |
|-----------|----------|--|--------------|--------------------|-------------|
| NUMBER | ITEM NO. | CUT WIRE OR SHIELD | TERMINATION | CUT WIRE OR SHIELD | TERMINATION |
| 1 | 2 | 3 | 4 | 5 | 6 |
| A 91 | 1 | P5-C 25N | P3-62 10N 28 | | |
| A 92 | 1 | P5-D 25N | P3-29 10N 22 | | |
| A 93 | 1 | P6-B 25N | P3-63 10N 22 | | |
| A 94 | 1 | P6-C 25N | P3-64 10N 22 | | |
| A 95 | 1 | P6-D 25N | P3-86 10N 22 | | |
| A 96 | 1 | P6-E 25N | P3-32 10N 22 | | |
| A 97 | 1 | P6-F 25N | P3-44 10N 22 | | |
| A 98 | 1 | P1-M 22N 27 | P3-47 22N 22 | | |
| | | MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| | | SCALE-NONE | | REV LTR G | |
| | | | | SHEET 21 OF 22 | |

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.



PENNANT

GENERAL NOTES

NOTE

- 1 SEE CONDUCTOR CHART, PENNANT NOTE 1.
2 SEE CONDUCTOR CHART, PENNANT NOTE 2.
3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY
MIL-D-70327.
4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER
ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES
MAX. AND AT EACH TERMINATION.
6 SPIRALLING OF THE MARKING IS ALLOWED.
7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130
(ES-267). .12 INCH HIGH CHARACTERS WHITE.
8 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
9 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12
INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019.
CENTRALIZE.
12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH
HIGH, COLOR BLACK PER ND1002019.
13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12
INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS
FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

| | | | | |
|--|---------|---------|-------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | | |
| | A | 1900998 | | |
| SCALE - NONE | REV LTR | F | SHEET | 2 OF 22 |

PENNANT

GENERAL NOTES

NOTE

- 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
- 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
 - A - FROM END SHIELD
 - L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L.
 - R - WHITE WITH RED TRACER OR WHITE WITH LETTER R.
 - Y - WHITE WITH YELLOW TRACER
- 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
- 17 SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR.
- 18 SEAL ZIPPER TUBING PER ND1002153
- 19 SERIALIZE PER ND1002023
- 20 ITEM 27 FURNISHED WITH ITEM 6
- 21 ITEM 28 FURNISHED WITH ITEM 7
- 22 ITEM 30 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 30 AS REQUIRED TO FIT.

| | | | | |
|--|---------|---------|-------|---------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | | |
| | A | 1900998 | | |
| SCALE - NONE | REV LTR | F | SHEET | 3 OF 22 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05653 DATE 11/1/85

[illegible]

**CABLE, INTERCONNECT W58
ISS. OSS TESTING**

| | | | |
|---------------|---------------|------|---------|
| MIT APPROVAL | CODE DENT NO. | SIZE | REV |
| NASA APPROVAL | | A | 1900998 |
| MIT APPROVAL | | | |

PENNANT

GENERAL NOTES

NOTE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

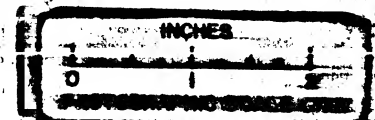
APPLICABLE LENGTH
FOR WIRE OR CABLE,
STRIP WIRE, STRIP
JACKET, CUT WIRE
OR CUT SHIELD.

TOLERANCE

WIRE OR STRIP CUT
CABLE WIRE JACKET WIRE SHIELD

| | | | | | |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| UNDER 1 INCH | + .06-.00 | + .03-.00 | + .06-.06 | + .06-.06 | + .06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | + .06-.00 | + .25-.25 | + .25-.25 | + .25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | + .50-.50 | + .50-.50 | + .50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | | |
|---|-----------------------------|-------------------------|----------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | |
| | SCALE - NONE | REV LTR F | SHEET 4 OF 21 |

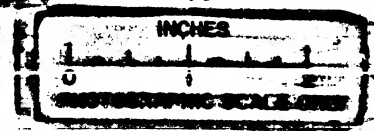


| GJK | | CABLE W-58 | | F | | 1900998 | | | | | | | | | | | | | | | |
|---|--|------------|--|---|--|---------|--|---------|-------------------|------|------------------------------|----|-------------------------------|--|--|--|--------------------------|--|-------------------------------|--|--|
| <table border="1"> <thead> <tr> <th>PENNANT</th> <th>LIST OF MATERIALS</th> </tr> <tr> <th>NOTE</th> <th>ITEM QTY PART NO DESCRIPTION</th> </tr> </thead> <tr> <td>10</td> <td>33 1 1015902- 46 TERMINAL LUG</td> </tr> <tr> <td></td> <td>34 3 1900998-008 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH</td> </tr> <tr> <td></td> <td>35 2 MS24055-2 CONNECTOR</td> </tr> <tr> <td></td> <td>36 2 MS24018-1 CONNECTOR HOOD</td> </tr> <tr> <td></td> <td>37 2 1900998-009 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-005 2 FEET.</td> </tr> </table> | | | | | | | | PENNANT | LIST OF MATERIALS | NOTE | ITEM QTY PART NO DESCRIPTION | 10 | 33 1 1015902- 46 TERMINAL LUG | | 34 3 1900998-008 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | 35 2 MS24055-2 CONNECTOR | | 36 2 MS24018-1 CONNECTOR HOOD | | 37 2 1900998-009 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-005 2 FEET. |
| PENNANT | LIST OF MATERIALS | | | | | | | | | | | | | | | | | | | | |
| NOTE | ITEM QTY PART NO DESCRIPTION | | | | | | | | | | | | | | | | | | | | |
| 10 | 33 1 1015902- 46 TERMINAL LUG | | | | | | | | | | | | | | | | | | | | |
| | 34 3 1900998-008 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH TOTAL LENGTH | | | | | | | | | | | | | | | | | | | | |
| | 35 2 MS24055-2 CONNECTOR | | | | | | | | | | | | | | | | | | | | |
| | 36 2 MS24018-1 CONNECTOR HOOD | | | | | | | | | | | | | | | | | | | | |
| | 37 2 1900998-009 TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-005 2 FEET. | | | | | | | | | | | | | | | | | | | | |
| MIL 2084 4-65 | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR <i>RH</i> SHEET 7 OF 22 | | | | | | | | | | | | | | | | | |

| GJK | | CABLE W-58 | | F | | 1900998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|-------------------|----------|---|-------------------|----------|------|-----------|--|------|--|----|--|-------------------|--------------------|-------------------|-----|--------------------|-------------------|-----|--------|----------|----------|----------|----------|----------|----------|-----|---|-------|-----|----|--------|-----|----|-----|--|---------|--|--|--|--|--|--|--|---------|--|--|--|--|--|------|--|---------|--|--|--|--|--|------|--|---------|--|--|--|--|--|------|--|---------|--|--|--|--|--|-----|--|---------|--|--|--|--|--|--|--|---------|--|--|--|--|--|------|--|---------|--|--|--|--|--|------|--|---------|--|--|--|--|--|-----|---|--|-----|-----|------|---|-----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|----|------|---|---------|-----|--|----|-----|--|------|--|------|-----|----|--------|-----|----|-----|---|------|-----|----|--------|-----|----|-----|---|------|-----|----|--------|-----|----|-----|---|--|-----|-----|-------|---|-----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|----|
| <table border="1"> <thead> <tr> <th colspan="2">CONDUCTOR</th> <th colspan="2">FROM</th> <th colspan="2">TO</th> </tr> <tr> <th>INDIVIDUAL LENGTH</th> <th>CUT WIRE OR SHIELD</th> <th>TERMINATION SPEC.</th> <th>NO.</th> <th>CUT WIRE OR SHIELD</th> <th>TERMINATION SPEC.</th> <th>NO.</th> </tr> <tr> <th>NUMBER</th> <th>ITEM NO.</th> <th>ITEM NO.</th> <th>ITEM NO.</th> <th>ITEM NO.</th> <th>ITEM NO.</th> <th>ITEM NO.</th> </tr> </thead> <tr> <td>A 1</td> <td>1</td> <td>P4- 1</td> <td>25N</td> <td>93</td> <td>P3- 91</td> <td>22N</td> <td>22</td> </tr> <tr> <td>A 2</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 2A</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 2L</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 2R</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 3</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 3A</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 3W</td> <td></td> <td>DELETED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A 4</td> <td>2</td> <td></td> <td>230</td> <td>200</td> <td>9 10</td> <td>5</td> <td>230</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>200</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A 17</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7A</td> </tr> <tr> <td>A 4A</td> <td>1</td> <td>SHLD A4</td> <td>37N</td> <td></td> <td>E1</td> <td>37N</td> <td></td> </tr> <tr> <td>A 4W</td> <td></td> <td>P1-E</td> <td>22N</td> <td>27</td> <td>P3- 54</td> <td>22N</td> <td>22</td> </tr> <tr> <td>A 5</td> <td>1</td> <td>P1-F</td> <td>22N</td> <td>27</td> <td>P3- 26</td> <td>22N</td> <td>22</td> </tr> <tr> <td>A 6</td> <td>1</td> <td>P1-G</td> <td>22N</td> <td>27</td> <td>P3- 83</td> <td>22N</td> <td>22</td> </tr> <tr> <td>A 7</td> <td>3</td> <td></td> <td>230</td> <td>200</td> <td>11 12</td> <td>5</td> <td>230</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>200</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A 16</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7A</td> </tr> </table> | | | | | | | | CONDUCTOR | | FROM | | TO | | INDIVIDUAL LENGTH | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | TERMINATION SPEC. | NO. | NUMBER | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | A 1 | 1 | P4- 1 | 25N | 93 | P3- 91 | 22N | 22 | A 2 | | DELETED | | | | | | | | DELETED | | | | | | A 2A | | DELETED | | | | | | A 2L | | DELETED | | | | | | A 2R | | DELETED | | | | | | A 3 | | DELETED | | | | | | | | DELETED | | | | | | A 3A | | DELETED | | | | | | A 3W | | DELETED | | | | | | A 4 | 2 | | 230 | 200 | 9 10 | 5 | 230 | | | | | | | | 200 | | | | | | | | A 17 | | | | | | | | 7A | A 4A | 1 | SHLD A4 | 37N | | E1 | 37N | | A 4W | | P1-E | 22N | 27 | P3- 54 | 22N | 22 | A 5 | 1 | P1-F | 22N | 27 | P3- 26 | 22N | 22 | A 6 | 1 | P1-G | 22N | 27 | P3- 83 | 22N | 22 | A 7 | 3 | | 230 | 200 | 11 12 | 5 | 230 | | | | | | | | 200 | | | | | | | | A 16 | | | | | | | | 7A |
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| A 6 | 1 | P1-G | 22N | 27 | P3- 83 | 22N | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MIL 2084 4-65 | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR F SHEET 8 OF 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GJK | | CABLE W-58 | | G | | 1900998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------|--|---|--|---------|--|---------|-------------------|------|------------------------------|--|--|--|---|--|--|--|---|--|---|----|---|----|---|----|--------------------------|----|---------------------------------------|----|--|----|---------------------------------------|----|---------------------------------------|----|--|----|--|----|---|
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| PENNANT | LIST OF MATERIALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | ITEM QTY PART NO DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 1 1900998-001 WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO. 22AWG 770 FT., 0 IN. TOTAL LENGTH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 1 1900998-002 WIRE ND1002181, TYPE 1, CLASS 4, WHT JKT NO. 22AWG, WHT, 432 FT., 0 IN. TOTAL LENGTH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 1 1900998-003 WIRE ND1002181, TYPE 2, CLASS 4, WHT JKT, NO. 22AWG WHT/BLU, WHT/RED, 112 FT., 0 IN. TOTAL LG. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 1 1900998-004 WIRE ND1002181, TYPE 3, CLASS 4, WHT, JKT, NO. 22AWG WHT/BLU, WHT/RED, WHT/YEL 50 FT., 0 IN. TOTAL LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 1 1900998-005 WIRE ND1002181, TYPE 2, CLASS 1, T2, 22AWG WHT WITH LETTER L, WHT WITH LETTER R 35 FT., 0 IN. TOTAL LENGTH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 6 1 MS3126F-24-61SX (1897048-612) CONNECTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | 9 23 1000243- 3 FERRULE, ELECT. COND. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 10 23 1000242- 2 FERRULE, ELECT. COND. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 11 6 1000243- 8 FERRULE, ELECT. COND. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 12 6 1000242- 7 FERRULE, ELECT. COND. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 13 3 1000243- 11 FERRULE, ELECT. COND. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 14 3 1000242- 11 FERRULE, ELECT. COND. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 15 6 1010490-196 INSULATION, SLEEVING, ELECT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIL 2084 4-65 | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR G SHEET 5 OF 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| GJK | | CABLE W-58 | | F | | 1900998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------|--|---|--|---------|--|---------|-------------------|------|------------------------------|----|--|----|--|----|---|----|---------------------------------------|----|---------------------------------------|----|---------------------------------|----|---|--|---|--|--|--|--|----|---|----|------------------------------|----|---------------------------|----|---|----|--|----|---------------------------------|----|---------------------------------|
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| PENNANT | LIST OF MATERIALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE | ITEM QTY PART NO DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 16 43 1010490-198 INSULATION, SLEEVING, ELECT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 17 25 1010490-200 INSULATION, SLEEVING, ELECT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 18 9 1010490-258 INSULATION, SLEEVING, ELECT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 19 1 1016128-011 BAND, IDENTIFICATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 20 3 1016128-041 BAND, IDENTIFICATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 21 9 1016006-002 SPLICE REDUCER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 22 108 1010464- 2 CONNECTOR, CONTACT, PIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 AR MIL-T-713 LACING, TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 1 1900998-006 ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.125 IN. DIA X 13 FT. 0 IN. TOT. LG. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 25 2 1900998-007 ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.0 IN. DIA X 6 FT. 0 IN. TOTAL LG. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 26 1 1016184-002 TRANSITION, HARNESS, 3 FINGER, HEAT SHRINK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 27 CONNECTOR CONTACT, SOCKET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 28 CONNECTOR CONTACT, PIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 29 4 1010490-188 INSULATION, SLEEVING, ELECT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 30 AR 1897147-106,-108,-112 CABLE CLAMP SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 31 1 1016282- 24 RUBBER GROMMET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 32 1 1016282- 22 RUBBER GROMMET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIL 2084 4-65 | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCALE - NONE REV LTR F SHEET 6 OF 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|-----|---------------|---|----------------------|---|-------|-----|-------------|----|----------------------|---|--------------------|--------|----------|-----|-------------|------|----|--|----|--|--|--|--|--|--|--|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | CUT WIRE OR SHIELD | | | | TERMINATION | | | | | | | | | | | | | |
| ITEM NO. | | CIRCUIT POINT | | STRIP WIRE OR JACKET | | T I N | | ITEM NO. | | STRIP WIRE OR JACKET | | T I N | | ITEM NO. | | | | | | | | | | | | | | | |
| NUMBER | NO. | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | | | | | | | | | | | | |
| A 13 | 1 | | | P1-V | | 22N | | 27 | | | | | P3- 1 | | 22N | | 22 | | | | | | | | | | | | |
| A 14 | 1 | | | P1-W | | 22N | | 27 | | | | | P3- 60 | | 22N | | 22 | | | | | | | | | | | | |
| A 15 | 1 | | | P1-X | | 22N | | 27 | | | | | P3- 2 | | 22N | | 22 | | | | | | | | | | | | |
| A 16 | 1 | | | P1-Y | | 22N | | 27 | | | | | P3- 96 | | 22N | | 22 | | | | | | | | | | | | |
| A 17 | 1 | | | P1-Z | | 22N | | 27 | | | | | P3- 95 | | 22N | | 22 | | | | | | | | | | | | |
| A 18 | 1 | | | P1-A* | | 22N | | 27 | | | | | E4 | | 37N | | | | | | | | | | | | | | |
| A 19 | 1 | | | P1-B* | | 22N | | 27 | | | | | P3- 93 | | 22N | | 22 | | | | | | | | | | | | |
| A 20 | 1 | | | P1-C* | | 22N | | 27 | | | | | P3- 51 | | 22N | | 22 | | | | | | | | | | | | |
| A 21 | 1 | | | P1-D* | | 22N | | 27 | | | | | P3-106 | | 22N | | 22 | | | | | | | | | | | | |
| A 22 | 1 | | | P1-E* | | 22N | | 27 | | | | | P3- 77 | | 22N | | 22 | | | | | | | | | | | | |
| A 23 | 1 | | | P1-F* | | 22N | | 27 | | | | | P3- 65 | | 22N | | 22 | | | | | | | | | | | | |
| A 24 | 2 | | | | | 280 | 250 | 9 | 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | | | | | | | | | | |
| | | | | | | | | A 16 | | | | | | | | | | | | | | | | | | | | | |
| A 24A | 1 | | | SHLD A24 | | 37N | | | | | | | E2 | | 37N | | | | | | | | | | | | | | |
| A 24W | | | | P1-G* | | 22N | | 27 | | | | | P3- 85 | | 22N | | 22 | | | | | | | | | | | | |
| A 25 | 2 | | | | | 280 | 250 | 9 | 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | | | | | | | | | | |
| | | | | | | | | A 16 | | | | | | | | | | | | | | | | | | | | | |
| A 25A | 1 | | | SHLD A25 | | 37N | | | | | | | E2 | | 37N | | | | | | | | | | | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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HOUSTON, TEXAS

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| CONDUCTOR | | | | | | | | | | FROM | | | | | | | | | | TO | | | | | | | | | |
|-------------------|-----|----------|---|----------------------|--|-----|-----|-------------------|---|------|---|-----|----------|--------------------|---|----------------------|-----|-------------------|------|---------------|--|-----|---|---|----------|--|---|--|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | NO. | | | | | | | |
| NUMBER | | ITEM NO. | 2 | STRIP WIRE OR JACKET | | T | 2 | CIRCUIT POINT | | 2 | T | 2 | ITEM NO. | | 2 | STRIP WIRE OR JACKET | | T | 2 | CIRCUIT POINT | | 2 | T | 2 | ITEM NO. | | 2 | | |
| A | 25W | | | P1-H* | | 22N | | 27 | | | | | | | | P3- 98 | | 22N | | 22 | | | | | | | | | |
| A | 26 | 1 | | P1-I* | | 22N | | 27 | | | | | | | | P3- 42 | | 22N | | 22 | | | | | | | | | |
| A | 27 | 5 | | | | | | A 29 | | | | | | | | | | | | A 29 | | | | | | | | | |
| A | 27L | | | P1-K* | | 22N | | 27 | | | | | | | | P3- 69 | | 22N | | 22 | | | | | | | | | |
| A | 27R | | | P1-J* | | 22N | | 27 | | | | | | | | P3- 80 | | 22N | | 22 | | | | | | | | | |
| A | 28 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | | | | 280 | 250 | A 17 | 7A | | | | | | | | | |
| | | | | | | | | A 16 | | | | | | | | | | | | | | | | | | | | | |
| A | 28A | 1 | | SHLD A28 | | 37N | | | | | | | | | | E2 | | 37N | | | | | | | | | | | |
| A | 28W | | | P1-M* | | 22N | | 27 | | | | | | | | P3- 92 | | 22N | | 22 | | | | | | | | | |
| A | 29 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | | | | 280 | 250 | A 17 | 7A | | | | | | | | | |
| | | | | | | | | A 16 | | | | | | | | | | | | | | | | | | | | | |
| A | 29A | 1 | | SHLD A29 | | 37N | | | | | | | | | | E2 | | 37N | | | | | | | | | | | |
| A | 29W | | | P1-N* | | 22N | | 27 | | | | | | | | P3- 74 | | 22N | | 22 | | | | | | | | | |
| A | 30 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | | | | 280 | 250 | A 17 | 7A | | | | | | | | | |
| | | | | | | | | A 16 | | | | | | | | | | | | | | | | | | | | | |
| A | 30A | 1 | | SHLD A30 | | 37N | | | | | | | | | | E2 | | 37N | | | | | | | | | | | |
| A | 30W | | | P1-P* | | 22N | | 27 | | | | | | | | P3- 90 | | 22N | | 22 | | | | | | | | | |
| A | 31 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | | | | 280 | 250 | A 17 | 7A | | | | | | | | | |

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THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

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| CONDUCTOR | | | | FROM | | | | TO | | | | | | |
|-------------------|----------|---|----------------------|------|-----|-------------------|----------------------|-----|--------------------|------|----------------------|-------------------|---|----------|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | |
| NUMBER | ITEM NO. | 3 | STRIP WIRE OR JACKET | 1 | 2 | NO. | STRIP WIRE OR JACKET | 1 | 2 | NO. | STRIP WIRE OR JACKET | 1 | 2 | NO. |
| | | | CIRCUIT POINT | 2 | 1 | ITEM NO. | | | | | CIRCUIT POINT | 2 | 1 | ITEM NO. |
| A 7A | 1 | | SHLD A7 | 37N | | | E1 | 37N | | | | | | |
| A 7L | | | P1-J | 22N | 27 | | P3- 12 | 22N | 22 | | | | | |
| A 7R | | | P1-H | 22N | 27 | | P3- 11 | 22N | 22 | | | | | |
| A 8 | 5 | | | | | A 29 | | | | | A 29 | | | |
| A 8L | | | P1-L | 22N | 27 | | P3- 40 | 22N | 22 | | | | | |
| A 8R | | | P1-K | 22N | 27 | | P3- 41 | 22N | 22 | | | | | |
| A 9 | 1 | | P1-N | 22N | 27 | | P3- 43 | 22N | 22 | | | | | |
| A 10 | 1 | | P1-P | 22N | 27 | | P3- 71 | 22N | 22 | | | | | |
| A 11 | 3 | | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 11A | 1 | | SHLD A11 | 37N | | | E1 | 37N | | | | | | |
| A 11L | | | P1-S | 22N | 27 | | P3- 53 | 22N | 22 | | | | | |
| A 11R | | | DELETED | | | | | | | | | | | |
| A 12 | 3 | | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 12A | 1 | | SHLD A12 | 37N | | | E1 | 37N | | | | | | |
| A 12L | | | P1-U | 22N | 27 | | P3- 52 | 22N | 22 | | | | | |
| A 12R | | | DELETED | | | | | | | | | | | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SCALE - NONE

SIZE
A

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1900998

SHEET 9 OF 2

| CONDUCTOR | | | | FROM | | | | TO | | | |
|-------------------|---|--|--|----------------------|-----|-----|---------|----------------------|-----|-----|---------|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | CUT WIRE OR SHIELD | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | | STRIP WIRE OR JACKET | | | |
| CIRCUIT POINT | | | | CIRCUIT POINT | | | | CIRCUIT POINT | | | |
| ITEM NO. | | | | ITEM NO. | | | | ITEM NO. | | | |
| | | | | | | | | | | | |
| A 31A | 1 | | | SHLD A31 | 37N | | | E2 | 37N | | |
| A 31W | | | | P1-Q* | 22N | 27 | | P3-100 | 22N | 22 | |
| A 32 | 2 | | | | 330 | 300 | 9 10 5 | | 330 | 300 | A 17 7A |
| | | | | | | | | | | | |
| A 32A | 1 | | | SHLD A32 | 37N | | | P1-S* | 22N | 27 | |
| A 32L | | | | DELETED | | | | | | | |
| A 32W | | | | P1-R* | 22N | 27 | | P3- 56 | 22N | 22 | |
| A 33 | 2 | | | | 330 | 300 | 9 10 5 | | 330 | 300 | A 17 7A |
| | | | | | | | | | | | |
| A 33A | 1 | | | SHLD A33 | 37N | | | P1-U* | 22N | 27 | |
| A 33W | | | | P1-T* | 22N | 27 | | P3- 48 | 22N | 22 | |
| A 34 | 1 | | | P1-V* | 22N | 27 | | P3- 36 | 22N | 22 | |
| A 35 | 1 | | | P1-W* | 22N | 27 | | P3- 94 | 22N | 22 | |
| A 36 | 4 | | | | 330 | 300 | 13 14 5 | | 330 | 300 | A 15 7A |
| | | | | | | | | | | | |
| A 36A | 1 | | | SHLD A36 | 37N | | | E3 | 37N | | |
| A 36L | | | | P1-Y* | 22N | 27 | | P3- 17 | 22N | 22 | |

1

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

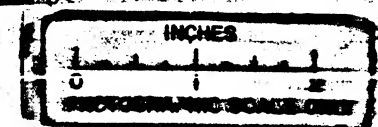
SCALE - NONE

SIZE

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SHEET 12 OF 2



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| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|---------|--|---------------|-------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 39R | | P1-FF | 22N | 27 | | P3- 4 | 22N | 22 | |
| A 39Y | | P1-HH | 22N | 27 | | P3- 18 | 22N | 22 | |
| A 40 | 2 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 7A |
| | | | | | A 16 | | | | |
| A 40A | 1 | SHLD A40 | 37N | | | E5 | 37N | | |
| A 40W | | P2-A | 22N | 28 | | P3- 39 | 22N | 22 | |
| A 41 | 2 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 7A |
| | | | | | A 16 | | | | |
| A 41A | 1 | SHLD A41 | 37N | | | E5 | 37N | | |
| A 41W | | P2-B | 22N | 28 | | P3- 73 | 22N | 22 | |
| A 42 | 2 | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 7A |
| | | | | | A 16 | | | | |
| A 42A | 1 | SHLD A42 | 37N | | | E5 | 37N | | |
| A 42W | | P2-C | 22N | 28 | | P3- 10 | 22N | 22 | |
| A 43 | 3 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 7A |
| | | | | | A 16 | | | | |
| A 43A | 1 | SHLD A43 | 37N | | | E5 | 37N | | |
| A 43L | | P2-E | 22N | 28 | | P3- 23 | 22N | 22 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A SCALE - NONE REV LTR F SHEET 14 OF 22 | | | |

MIL 2088 - 4-65 WIR

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CABLE W-58

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| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|---------|--|---------------|-------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 43R | | P2-D | 22N | 28 | | P3- 24 | 22N | 22 | |
| A 44 | 3 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 7A |
| | | | | | A 16 | | | | |
| A 44A | 1 | SHLD A44 | 37N | | | E5 | 37N | | |
| A 44L | | P2-G | 22N | 28 | | P3- 34 | 22N | 22 | |
| A 44R | | P2-F | 22N | 28 | | P3- 35 | 22N | 22 | |
| A 45 | 3 | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 7A |
| | | | | | A 16 | | | | |
| A 45A | 1 | SHLD A45 | 37N | | | E5 | 37N | | |
| A 45L | | P2-J | 22N | 28 | | P3- 33 | 22N | 22 | |
| A 45R | | P2-H | 22N | 28 | | P3- 19 | 22N | 22 | |
| A 46 | 1 | P2-K | 22N | 28 | | P3- 99 | 22N | 22 | |
| A 47 | | DELETED | | | | | | | |
| | | DELETED | | | | | | | |
| A 47A | | DELETED | | | | | | | |
| A 47L | | DELETED | | | | | | | |
| A 47R | | DELETED | | | | | | | |
| A 48 | | DELETED | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A SCALE - NONE REV LTR F SHEET 15 OF 22 | | | |

MIL 2088 - 4-65 WIR

GJK

CABLE W-58

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1900998

| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|---------|--|---------------|-------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 36L | | P1-Y* | 22N | 27 | | P3- 17 | 22N | 22 | |
| A 36R | | P1-X* | 22N | 27 | | P3- 3 | 22N | 22 | |
| A 36Y | | P1-Z* | 22N | 27 | | P3- 16 | 22N | 22 | |
| A 37 | 3 | | 330 | 300 | 11 12 5 | | 330 | 300 | A 16 7A |
| | | | | | A 16 | | | | |
| A 37A | 1 | SHLD A37 | 37N | | | E3 | 37N | | |
| A 37L | | P1-BB | 22N | 27 | | P3- 27 | 22N | 22 | |
| A 37R | | P1-AA | 22N | 27 | | P3- 13 | 22N | 22 | |
| A 38 | 4 | | 330 | 300 | 13 14 5 | | 330 | 300 | A 15 7A |
| | | | | | A 15 | | | | |
| A 38A | 1 | SHLD A38 | 37N | | | E3 | 37N | | |
| A 38L | | P1-DD | 22N | 27 | | P3- 6 | 22N | 22 | |
| A 38R | | P1-CC | 22N | 27 | | P3- 20 | 22N | 22 | |
| A 38Y | | P1-EE | 22N | 27 | | P3- 7 | 22N | 22 | |
| A 39 | 4 | | 330 | 300 | 13 14 5 | | 330 | 300 | A 15 7A |
| | | | | | A 15 | | | | |
| A 39A | 1 | SHLD A39 | 37N | | | E3 | 37N | | |
| A 39L | | P1-GG | 22N | 27 | | P3- 5 | 22N | 22 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A SCALE - NONE REV LTR F SHEET 13 OF 22 | | | |

MIL 2088 - 4-65 WIR

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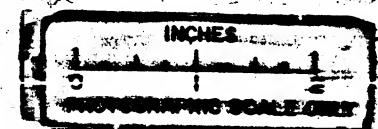
CABLE W-58

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| CONDUCTOR | | FROM | | | | TO | | | |
|---|----------|----------------------|---------------|-------------|--------|--|---------------|-------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION | | CUT WIRE OR SHIELD | | TERMINATION | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| | | DELETED | | | | | | | |
| A 48A | | DELETED | | | | | | | |
| A 48W | | DELETED | | | | | | | |
| A 49 | 1 | P2-R | 22N | 28 | | P3- 14 | 22N | 22 | |
| A 50 | 1 | P2-S | 22N | 28 | | P3- 50 | 22N | 22 | |
| A 51 | 1 | P2-T | 22N | 28 | | P3- 21 | 22N | 22 | |
| A 52 | 1 | P2-U | 22N | 28 | | P3- 70 | 22N | 22 | |
| A 53 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | | A 16 | | | | |
| A 53A | 1 | SHLD A53 | 37N | | | E6 | 37N | | |
| A 53W | | P2-V | 22N | 28 | | P3- 82 | 22N | 22 | |
| A 54 | 1 | P2-W | 22N | 28 | | P3- 58 | 22N | 22 | |
| A 55 | 1 | P2-X | 22N | 28 | | P3- 59 | 22N | 22 | |
| A 56 | 1 | P2-Y | 22N | 28 | | P3- 66 | 22N | 22 | |
| A 57 | 1 | P2-Z | 22N | 28 | | P3- 78 | 22N | 22 | |
| A 58 | 1 | P2-A* | 22N | 28 | | E9 | 37N | | |
| A 59 | 1 | P2-B* | 22N | 28 | | P3- 81 | 22N | 22 | |
| A 60 | 1 | P2-C* | 22N | 28 | | P3- 79 | 22N | 22 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIZE A SCALE - NONE REV LTR F SHEET 16 OF 22 | | | |

MIL 2088 - 4-65 WIR



| GJK | | CABLE W-58 | | | | | | | | | | F | | 1900998 | | | | |
|---|--|------------|---|----------------------|--|---|-------------------|-----|------|-----|--|---|-----------|-------------------|----------------|----------|------|----|
| CONDUCTOR | | | | FROM | | | | | | TO | | | | | | | | |
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | |
| NUMBER | | ITEM NO. | 2 | STRIP WIRE OR JACKET | | 2 | T | N | 2 | | STRIP WIRE OR JACKET | | T | N | 2 | ITEM NO. | | 2 |
| A 67 | | 2 | | | | 2 | 330 | 300 | 9 10 | 5 | | | | 2 | 330 | 300 | A 17 | 7A |
| | | | | | | | | | A 16 | | | | | | | | | |
| A 67A | | 1 | | SHLD A67 | | | 37N | | | | E7 | | | 37N | | | | |
| A 67W | | | | P2-K* | | | 22N | | 28 | | P3-102 | | | 22N | | 22 | | |
| A 68 | | 1 | | P2-M* | | | 22N | | 28 | | P3- 37 | | | 22N | | 22 | | |
| A 69 | | 1 | | P2-N* | | | 22N | | 28 | | P3- 30 | | | 22N | | 22 | | |
| A 70 | | 1 | | P2-P* | | | 22N | | 28 | | P3- 31 | | | 22N | | 22 | | |
| A 71 | | 1 | | P2-R* | | | 22N | | 28 | | P3- 55 | | | 22N | | 22 | | |
| A 72 | | 1 | | P2-S* | | | 22N | | 28 | | P3- 46 | | | 22N | | 22 | | |
| A 72 | | 2 | | | | | 330 | 300 | 9 10 | 5 | | | | 330 | 300 | A 17 | 7A | |
| | | | | | | | | | A 16 | | | | | | | | | |
| A 72A | | 1 | | SHLD A72 | | | 37N | | | | E7 | | | 37N | | | | |
| A 72W | | | | P2-T* | | | 22N | | 28 | | P3- 88 | | | 22N | | 22 | | |
| A 73 | | 2 | | | | | 330 | 300 | 9 10 | 5 | | | | 330 | 300 | A 17 | 7A | |
| | | | | | | | | | A 16 | | | | | | | | | |
| A 73A | | 1 | | SHLD A73 | | | 37N | | | | E7 | | | 37N | | | | |
| A 73W | | | | P2-U* | | | 22N | | 28 | | P3- 87 | | | 22N | | 22 | | |
| A 74 | | 2 | | | | | 330 | 300 | 9 10 | 5 | | | | 330 | 300 | A 17 | 7A | |
| | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | SCALE - NONE | | REV LTR F | | SHEET 18 OF 22 | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2089 - 4-83 WIR

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | | | | |
|-------------------|----------|----------------------|----------|---------------|-----|----------|----------------------|---|---------------|--|----------|--|--------------------|-----------|-----|----------------|----|-------------------|--|--|--|--|-----|--|--|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | STRIP WIRE OR JACKET | | CIRCUIT POINT | | ITEM NO. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 74A | 1 | | SHLD A74 | | 37N | | | | | | | | E7 | | 37N | | | | | | | | | | |
| A 74W | | | P2-V* | | 22N | | 28 | | | | | | P3-101 | | 22N | | 22 | | | | | | | | |
| A 75 | 2 | | | | 330 | 300 | 9 10 | 5 | | | | | | 330 | 300 | A 17 | 7A | | | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | | |
| A 75A | 1 | | SHLD A75 | | 37N | | | | | | | | E7 | | 37N | | | | | | | | | | |
| A 75W | | | P2-W* | | 22N | | 28 | | | | | | P3- 76 | | 22N | | 22 | | | | | | | | |
| A 76 | 2 | | | | 380 | 350 | 9 10 | 5 | | | | | | 380 | 350 | A 17 | 7A | | | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | | |
| A 76A | 1 | | SHLD A76 | | 37N | | | | | | | | E8 | | 37N | | | | | | | | | | |
| A 76W | | | P2-X* | | 22N | | 28 | | | | | | P3- 75 | | 22N | | 22 | | | | | | | | |
| A 77 | 2 | | | | 380 | 350 | 9 10 | 5 | | | | | | 380 | 350 | A 17 | 7A | | | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | | |
| A 77A | 1 | | SHLD A77 | | 37N | | | | | | | | E8 | | 37N | | | | | | | | | | |
| A 77W | | | P2-Y* | | 22N | | 28 | | | | | | P3-105 | | 22N | | 22 | | | | | | | | |
| A 78 | 2 | | | | 380 | 350 | 9 10 | 5 | | | | | | 380 | 350 | A 17 | 7A | | | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | | |
| A 78A | 1 | | SHLD A78 | | 37N | | | | | | | | E8 | | 37N | | | | | | | | | | |
| | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | | | | | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR F | | SHEET 19 OF 22 | | | | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2089 - 4-83 WIR

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| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | | | |
|-------------------|----------|---|----------------------|---|-----|---|----------|-------------------|------|----------|---|---|-----|----------------------|---|-----|---|----------|-------------------|------|---------------|----|--|-----|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | NO. |
| NUMBER | ITEM NO. | 1 | STRIP WIRE OR JACKET | | 1 | 2 | ITEM NO. | 1 | 2 | ITEM NO. | 1 | 2 | | STRIP WIRE OR JACKET | | 1 | 2 | ITEM NO. | 1 | 2 | | | | |
| | | | CIRCUIT POINT | 2 | | | | | | | | | | CIRCUIT POINT | 2 | | | | | | CIRCUIT POINT | 2 | | |
| A 61 | 1 | | P2-D* | | 22N | | 28 | | | | | | | P3- 68 | | 22N | | 22 | | | | | | |
| A 62 | 1 | | P2-E* | | 22N | | 28 | | | | | | | P3- 67 | | 22N | | 22 | | | | | | |
| A 63 | 2 | | | | 280 | | 250 | | 9 10 | | 5 | | | | | 280 | | 250 | | A 17 | | 7A | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | |
| A 63A | 1 | | SHLD A63 | | 37N | | | | | | | | | E6 | | 37N | | | | | | | | |
| A 63W | | | P2-F* | | 22N | | 28 | | | | | | | P3- 89 | | 22N | | 22 | | | | | | |
| A 64 | 2 | | | | 280 | | 250 | | 9 10 | | 5 | | | | | 280 | | 250 | | A 17 | | 7A | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | |
| A 64A | 1 | | SHLD A64 | | 37N | | | | | | | | | E6 | | 37N | | | | | | | | |
| A 64W | | | P2-G* | | 22N | | 28 | | | | | | | P3-104 | | 22N | | 22 | | | | | | |
| A 65 | 2 | | | | 280 | | 250 | | 9 10 | | 5 | | | | | 280 | | 250 | | A 17 | | 7A | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | |
| A 65A | 1 | | SHLD A65 | | 37N | | | | | | | | | E6 | | 37N | | | | | | | | |
| A 65W | | | P2-H* | | 22N | | 28 | | | | | | | P3- 97 | | 22N | | 22 | | | | | | |
| A 66 | 2 | | | | 330 | | 300 | | 9 10 | | 5 | | | | | 330 | | 300 | | A 17 | | 7A | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | | | |
| A 66A | 1 | | SHLD A66 | | 37N | | | | | | | | | E7 | | 37N | | | | | | | | |
| A 66W | | | P2-J* | | 22N | | 28 | | | | | | | P3- 86 | | 22N | | 22 | | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SCALE - NONE

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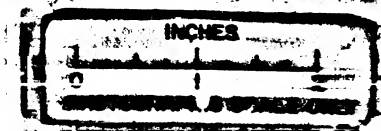
1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2089 - 4-83 WIR

| GJK | | CABLE W-58 | | | | | | | | | | F | | 1900998 | | | | | |
|---|----------|------------|----------------------|-----|-----|-------------------|----|---|-----|--|-----|-----------|-------------------|---------|---|----------------|--|--|--|
| CONDUCTOR | | | FROM | | | | | | TO | | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | | NO. | | | |
| NUMBER | ITEM NO. | 2 | STRIP WIRE OR JACKET | | 1 | ITEM NO. | | 1 | | STRIP WIRE OR JACKET | | 1 | ITEM NO. | | 1 | | | | |
| A 78W | | | P2-AA | 22N | | 28 | | | | P3- 49 | 22N | | 22 | | | | | | |
| A 79 | 2 | | | 380 | 350 | 9 | 10 | 5 | | | 380 | 350 | A 17 | 7A | | | | | |
| | | | | | | A 16 | | | | | | | | | | | | | |
| A 79A | 1 | | SHLD A79 | 37N | | | | | | E8 | 37N | | | | | | | | |
| A 79W | | | P2-BB | 22N | | 28 | | | | P3- 38 | 22N | | 22 | | | | | | |
| A 80 | 1 | | P2-CC | 22N | | 28 | | | | P3- 72 | 22N | | 22 | | | | | | |
| A 81 | 1 | | P2-DD | 22N | | 28 | | | | P3- 25 | 22N | | 22 | | | | | | |
| A 82 | 1 | | E1 | 37N | | | | | | E4 | 37N | | | | | | | | |
| A 83 | 1 | | E2 | 37N | | | | | | E4 | 37N | | | | | | | | |
| A 84 | 1 | | E3 | 37N | | | | | | E4 | 37N | | | | | | | | |
| A 85 | 1 | | E5 | 37N | | | | | | E9 | 37N | | | | | | | | |
| A 86 | 1 | | E6 | 37N | | | | | | E9 | 37N | | | | | | | | |
| A 87 | 1 | | E7 | 37N | | | | | | E9 | 37N | | | | | | | | |
| A 88 | 1 | | E8 | 37N | | | | | | E9 | 37N | | | | | | | | |
| A 89 | 2 | | | 380 | 350 | 9 | 10 | 5 | | | 380 | 350 | A 17 | 7A | | | | | |
| | | | | | | A 16 | | | | | | | | | | | | | |
| A 89A | 1 | | SHLD A89 | 37N | | | | | | E8 | 37N | | | | | | | | |
| A 89W | | | P2-I* | 22N | | 28 | | | | P3-103 | 22N | | 22 | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | | 1900998 | | | | | |
| | | | | | | | | | | SCALE - NONE | | REV LTR | | F | | SHEET 20 OF 22 | | | |

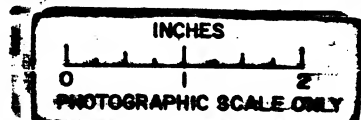
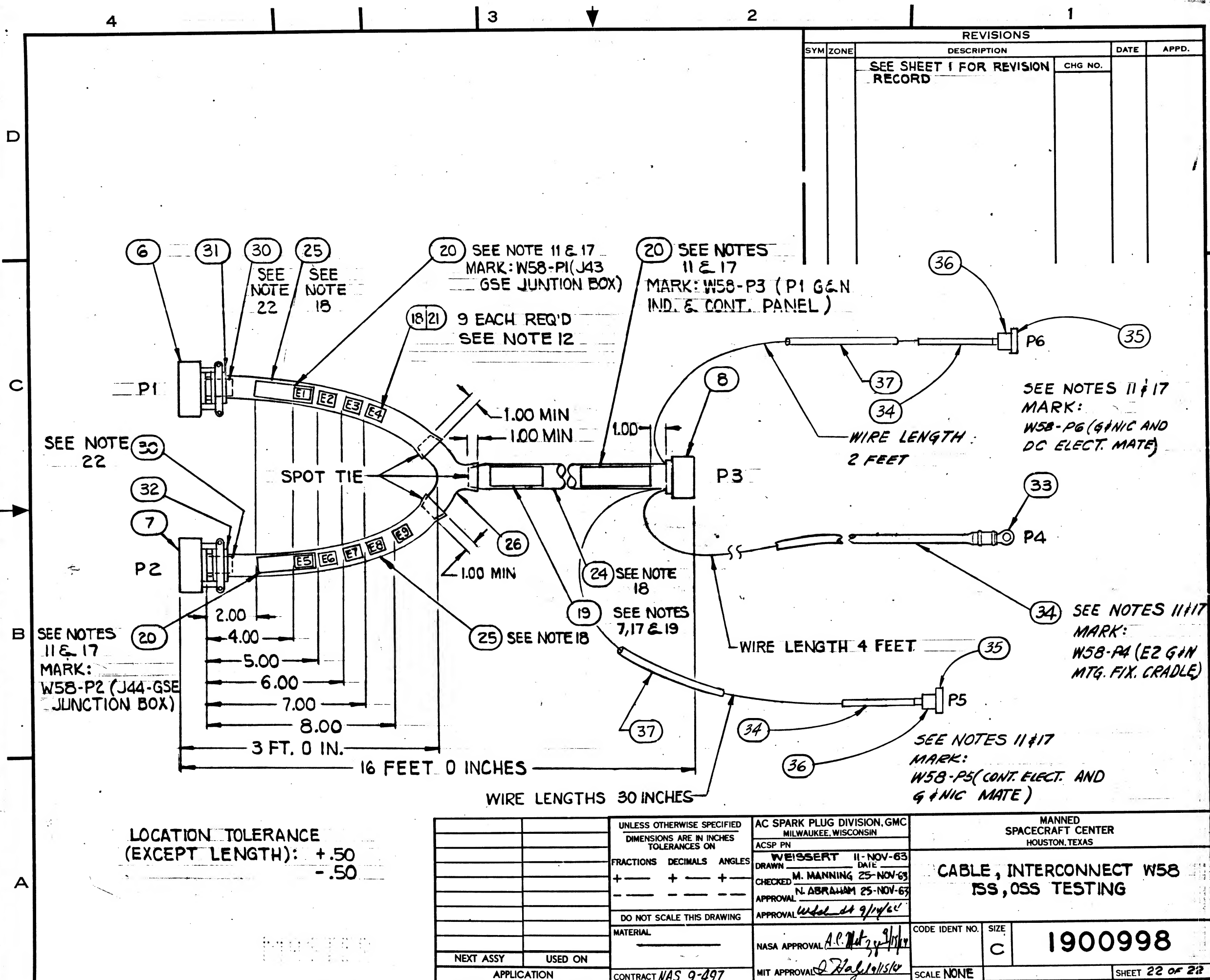
1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MIL 2089 - 4-83 WIR



6 1900998

A ruler with markings in both inches and centimeters. The word "INCHES" is printed above the top scale. The top scale has markings from 1 to 3 inches. The bottom scale has markings from 0 to 3 centimeters. The ruler is used to measure the length of the document.



[illegible]

| | | | |
|---------|---|---|---------|
| 6JK | CABLE W-58 | J | 1900998 |
| PENNANT | GENERAL NOTES | | |
| NOTE | | | |
| 1 | SEE CONDUCTOR CHART, PENNANT NOTE 1. | | |
| 2 | SEE CONDUCTOR CHART, PENNANT NOTE 2. | | |
| 3 | INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. | | |
| 4 | MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B. | | |
| 5 | SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION. | | |
| 6 | SPIRALLING OF THE MARKING IS ALLOWED. | | |
| 7 | IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267). .12 INCH HIGH CHARACTERS WHITE. | | |
| 8 | Y OR N IN TINNED COLUMN INDICATES YES OR NO. | | |
| 9 | A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER. | | |
| 10 | VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING. | | |
| 11 | MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE. | | |
| 12 | MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019. | | |
| 13 | MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD. | | |

| | | |
|--|----------------------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE-NONE | REV LTR | J |
| | | SHEET 2 OF 23 |

GJK
CABLE W-58
J
1900998

| PENNANT | GENERAL NOTES |
|---------|--|
| NOTE | |
| 14 | A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE. |
| 15 | THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. <div style="margin-left: 20px;"> A - FROM END SHIELD L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L. R - WHITE WITH RED TRACER OR WHITE WITH LETTER R. Y - WHITE WITH YELLOW TRACER </div> |
| 16 | ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES. |
| 17 | SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR. |
| 18 | SEAL ZIPPER TUBING PER ND1002153 |
| 19 | SERIALIZE PER ND1002023 |
| 20 | ITEM 27 FURNISHED WITH ITEM 6 |
| 21 | ITEM 28 FURNISHED WITH ITEM 7 |
| 22 | ITEM 30 SHALL BE SHORTENED WHEN NECESSARY TO AVOID INTERFERENCE WITH FERRULES AND MAY BE CUT LENGTHWISE ON ONE SIDE. SELECT ONE OR MORE OF ITEM 30 AS REQUIRED TO FIT. |

| | | |
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| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 |
| SCALE - NONE | REV LTR | J |

SHEET 3 OF 7

| | | | | | | | |
|---------|----------|-------------------|---|--|---------|---------------|--|
| GJK | | CABLE W-58 | | J | | 1900998 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 1 | 1 | 1900998-001 | WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO. 22AWG 772 FT., 9 IN. TOTAL LENGTH. | | | |
| | 2 | 1 | 1900998-002 | WIRE ND1002181, TYPE 1, CLASS 4, WHT JKT NO. 22AWG, WHT, 400 FT. 0 IN. TOTAL LENGTH. | | | |
| | 3 | 1 | 1900998-003 | WIRE ND1002181, TYPE 2, CLASS 4, WHT JKT, NO. 22AWG WHT/BLU, WHT/RED, 64 FT. 0 IN. TOTAL LG. | | | |
| | 4 | 1 | 1900998-004 | WIRE ND1002181, TYPE 3, CLASS 4, WHT, JKT, NO. 22AWG WHT/BLU, WHT/RED, WHT/YEL 50 FT. 0 IN. TOTAL LENGTH | | | |
| | 5 | 1 | 1900998-005 | WIRE ND1002181, TYPE 2, CLASS 1, T2, 22AWG WHT WITH LETTER L, WHT WITH LETTER R 35 FT. 0 IN. TOTAL LENGTH. | | | |
| | 16 | 6 | 1 | MS3126F-24-61SX (1897048-612) CONNECTOR | | | |
| | 16 | 7 | 1 | MS3126F-22-55PW (1897045-551) CONNECTOR | | | |
| | 10 | 8 | 1 | 1010411- 1 CONNECTOR | | | |
| | 10 | 9 | 21 | 1000243- 3 FERRULE, ELECT. COND. | | | |
| | 10 | 10 | 21 | 1000242- 2 FERRULE, ELECT. COND. | | | |
| | 10 | 11 | 4 | 1000243- 8 FERRULE, ELECT. COND. | | | |
| | 10 | 12 | 4 | 1000242- 7 FERRULE, ELECT. COND. | | | |
| | 10 | 13 | 3 | 1000243- 11 FERRULE, ELECT. COND. | | | |
| | 10 | 14 | 3 | 1000242- 11 FERRULE, ELECT. COND. | | | |
| | 10 | 15 | 6 | 1010490-196 INSULATION, SLEEVING, ELECT. | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | |
| | | | SCALE-NONE | REV LTR | J | SHEET 5 OF 23 | |

MIL 2084 4-63

| | | | | | | | |
|---------|----------|-------------------|---|---|---------|---------------|--|
| GJK | | CABLE W-58 | | J | | 1900998 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 10 | 16 | 45 | 1010490-198 INSULATION, SLEEVING, ELECT. | | | |
| | 10 | 17 | 27 | 1010490-200 INSULATION, SLEEVING, ELECT. | | | |
| | 10 | 18 | 9 | 1010490-258 INSULATION, SLEEVING, ELECT. | | | |
| | 10 | 19 | 1 | 1016128-011 BAND, IDENTIFICATION | | | |
| | 10 | 20 | 3 | 1016128-041 BAND, IDENTIFICATION | | | |
| | 10 | 21 | 9 | 1016006-002 SPLICE REDUCER | | | |
| | 10 | 22 | 109 | 1010464- 2 CONNECTOR, CONTACT, PIN | | | |
| | 23 | AR | MIL-T-713 | LACING, TAPE, TYPE P, CLASS 2, BLACK (ES-2732 NO. 18) | | | |
| | 24 | 1 | 1900998-006 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.125 IN. DIA X 13 FT. 0 IN. TOT. LG. | | | |
| | 25 | 2 | 1900998-007 | ZIPPER TUBING, ND1002155, TYPE 1, PLASTIC, FLEXIBLE 1.0 IN. DIA X 6 FT. 0 IN. TOTAL LG. | | | |
| | 10 | 26 | 1 | 1016184-002 TRANSITION, HARNESS, 3 FINGER, HEAT SHRINK | | | |
| | 20 | 27 | 3 | CONNECTOR CONTACT, SOCKET | | | |
| | 21 | 28 | | CONNECTOR CONTACT, PIN | | | |
| | 10 | 29 | 4 | 1010490-188 INSULATION, SLEEVING, ELECT. | | | |
| | 22 | 30 | AR | 1897147-106,-108,-112 CABLE CLAMP SLEEVE | | | |
| | 10 | 31 | 1 | 1016282- 24 RUBBER GROMMET | | | |
| | 10 | 32 | 1 | 1016282- 22 RUBBER GROMMET | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | |
| | | | SCALE-NONE | REV LTR | J | SHEET 6 OF 23 | |

MIL 2084 4-63

| | | | | | | | |
|--|--|---------------|---|------------|---------|---------------|--|
| GJK | | CABLE W-58 | | J | | 1900998 | |
| PENNANT | | GENERAL NOTES | | | | | |
| NOTE | | | | | | | |
| TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED --- | | | | | | | |
| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD. | | | | | | | |
| | | WIRE OR CABLE | | STRIP WIRE | | CUT SHIELD | |
| | | | | JACKET | | | |
| UNDER 1 INCH | | + .06-.00 | | + .03-.00 | | + .06-.06 | |
| 1 INCH TO 6 INCHES | | + .50-.00 | | + .06-.00 | | + .25-.25 | |
| 6 INCHES TO 6 FEET | | +1.00-.00 | | + .50-.50 | | + .50-.50 | |
| OVER 6 FEET | | +2.00-.00 | | | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | |
| | | | SCALE-NONE | REV LTR | J | SHEET 4 OF 23 | |

MIL 2084 4-63

| | | | | | | | |
|---------|----------|-------------------|---|---|---------|---------------|--|
| GJK | | CABLE W-58 | | K | | 1900998 | |
| PENNANT | | LIST OF MATERIALS | | | | | |
| NOTE | ITEM QTY | PART NO | DESCRIPTION | | | | |
| | 10 | 33 | 1 | 1015902- 46 TERMINAL LUG | | | |
| | 34 | 3 | 1900998-008 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-006 6 INCH | | | |
| | 35 | 2 | MS24053-2 | CONNECTOR | | | |
| | 36 | 2 | MS24018-1 | CONNECTOR HOOD | | | |
| | 37 | 2 | 1900998-009 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-005 2 FEET | | | |
| | 38 | 1 | 1900998-010 | WIRE COAXIAL MIL-C-17/69A RG 188 A/U 40 FEET TOTAL LENGTH | | | |
| | 39 | 4 | 1000243-006 | FERRULE ELECT. CONDUCTOR | | | |
| | 40 | 4 | 1000242-005 | FERRULE ELECT. CONDUCTOR | | | |
| | 41 | 2 | 1016369-388 | INNER FEMALE CONTACT | | | |
| | 42 | 2 | 1016369-288 | OUTER MALE CONTACT | | | |
| | 43 | 2 | 1016369-588 | HYRING | | | |
| | 44 | 2 | 1016369-420 | PINS | | | |
| | 45 | 1 | 1900998-011 | TUBING, MODIFIED POLYVINYL CHLORIDE, FLEXIBLE SHRINK-FIT PER 1016197-007, 4 FEET TOTAL LENGTH | | | |
| | 46 | 1 | 1902171-002 | POLARIZING SHELL. | | | |
| | 47 | 1 | 1016369-140 | CONNECTOR | | | |
| | 48 | 1 | 1900998-012 | ZIPPER TUBING ND1002155, TYPE 1 PLASTIC FLEXIBLE 2 IN. DIA, 5 INCHES TOTAL LENGTH | | | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1900998 | | |
| | | | SCALE-NONE | REV LTR | K | SHEET 7 OF 23 | |

MIL 2084 4-63

NOTES

- 1 SEE CONDUCTOR CHART
2 SEE CONDUCTOR CHART
3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4 MARK CONDUCTOR IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5 SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 15 INCHES MAX AND AT EACH TERMINATION.
6 SPIRALLING OF THE MARKING IS ALLOWED.
7 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
8 .12 INCH HIGH CHARACTERS BLACK.
9 Y OR N IN TINNED COLUMN INDICATES YES OR NO.
10 A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
12 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.

| | | |
|--|---------|--------------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | |
| | A | 1900998 |
| SCALE - NONE | REV LTR | + SHEET 2 OF 20 |

NOTES

- NOTES
- 12 MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
 - 13 MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
 - 14 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
 - 15 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
 - A - FROM END SHIELD
 - L - WHITE WITH BLUE TRACER OR WHITE WITH LETTER L.
 - R - WHITE WITH RED TRACER OR WHITE WITH LETTER R.
 - Y - WHITE WITH YELLOW TRACER
 - 16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
 - 17 SECURE TO CABLE USING ITEM 22, MARKING TO READ AWAY FROM CONNECTOR.
 - 18 SEAL ZIPPER TUBING PER ND 1002153
 - 19 SERIALIZE PER ND 1002023
 - 20 ITEM 27 FURNISHED WITH ITEM 6
 - 21 ITEM 28 FURNISHED WITH ITEM 7

| | | | |
|--|---------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | 1900998 | |
| | A | | |
| SCALE - NONE | REV LTR | + | SHEET 3 OF 20 |

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 05653 DATE 1/7/64

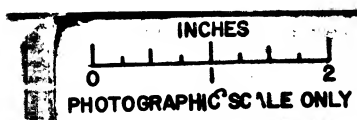
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GENERAL NOTES

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

| APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD | TOLERANCE | | | | |
|--|------------------|----------|----------|----------|----------|
| | WIRE OR CABLE | STRIP | | CUT | |
| | | WIRE | JACKET | WIRE | SHIELD |
| | | | | | |
| UNDER 1 INCH | + .06-.00 | +.03-.00 | +.06-.06 | +.06-.06 | +.06-.06 |
| 1 INCH TO 6 INCHES | + .50-.00 | +.06-.00 | +.25-.25 | +.25-.25 | +.25-.25 |
| 6 INCHES TO 6 FEET | +1.00-.00 | | +.50-.50 | +.50-.50 | +.50-.50 |
| OVER 6 FEET | +2.00-.00 | | | | |

| | | | |
|--|---------|---------|---------------|
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE | | |
| | A | 1900998 | |
| SCALE - NONE | REV LTR | † | SHEET 4 OF 13 |

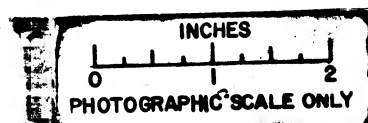


| LIST OF MATERIAL | | | | |
|------------------|------|-------|---|--|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| 10 | 13 | 3 | 1000243-11 | FERRULE, ELECT. COND. |
| 10 | 14 | 3 | 1000242-11 | FERRULE, ELECT. COND. |
| 10 | 15 | 6 | 1010490-196 | INSULATION, SLEEVING, ELECT. |
| 10 | 16 | 48 | 1010490-198 | INSULATION, SLEEVING, ELECT. |
| 10 | 17 | 26 | 1010490-200 | INSULATION, SLEEVING, ELECT. |
| 10 | 18 | 9 | 1010490-258 | INSULATION, SLEEVING, ELECT. |
| 10 | 19 | 1 | 1016128-011 | BAND, IDENTIFICATION |
| 10 | 20 | 3 | 1016128-041 | BAND, IDENTIFICATION |
| 10 | 21 | 9 | 1016006-002 | SPLICE REDUCER |
| 10 | 22 | 108 | 1010464-1 | CONNECTOR, CONTACT, PIN |
| | 23 | AR | MIL-T-713 | LACING, TAPE, TYPE P, CLASS 2, BLACK (ES 2732 NO.18) |
| | 24 | 1 | 1900998-006 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 7/8 DIA X 13 FT. 0 IN. TOTAL LENGTH." |
| | 25 | 2 | 1900998-007 | ZIPPER TUBING, ND 1002155, TYPE 1, PLASTIC, FLEXIBLE 5/8 DIA X 6 FT. 0 IN. TOTAL LENGTH. |
| 10 | 26 | 1 | 1016184-002 | TRANSITION, HARNESS, 3 FINGER, HEAT SHRINK |
| 20 | 27 | 61 | | CONNECTOR CONTACT, SOCKET |
| 21 | 28 | 55 | | CONNECTOR CONTACT, PIN |
| 10 | 29 | 4 | 1010490-188 | INSULATION, SLEEVING, ELECT. |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | SCALE - NONE | REV LTR + |
| | | | 1900998 | |
| | | | SHEET 6 OF 13 | |

| LIST OF MATERIAL | | | | |
|------------------|------|-------|---|---|
| SEE NOTE | ITEM | REQ'D | PART NUMBER | DESCRIPTION |
| | 1 | 1 | 1900998-001 | WIRE ND 1002181, TYPE 1, CLASS 1, WHITE, NO. 22 AWG 620 FEET, 0 IN. TOTAL LENGTH. |
| | 2 | 1 | 1900998-002 | WIRE ND 1002181, TYPE 1, CLASS 4, WHT. JACKET, NO. 22 AWG, WHT, 320 FT. 0 IN. TOTAL LENGTH. |
| | 3 | 1 | 1900998-003 | WIRE ND 1002181, TYPE 2, CLASS 4, WHT JACKET, NO. 22 AWG WHT/BLU, WHT/RED, 180 FT. 0 IN. TOTAL LENGTH. |
| | 4 | 1 | 1900998-004 | WIRE ND 1002181, TYPE 3, CLASS 4, WHT. JACKET, NO. 22 AWG WHT/BLU, WHT/RED, WHT/YEL 50 FT. 0 IN. TOTAL LENGTH. |
| | 5 | 1 | 1900998-005 | WIRE ND 1002181, TYPE 2, CLASS 1, T2, 22 AWG WHITE WITH LETTER L, WHT. WITH LETTER R 35 FT. 0 IN. TOTAL LENGTH. |
| 16 | 6 | 1 | MS3126F-24-61SX (1897048-612) | CONNECTOR |
| 16 | 7 | 1 | MS3126F-22-55PW (1897045-551) | CONNECTOR |
| 10,16 | 8 | 1 | 1010411-1 | CONNECTOR |
| 10 | 9 | 26 | 1000243-3 | FERRULE, ELECT. COND. |
| 10 | 10 | 26 | 1000242-2 | FERRULE, ELECT. COND. |
| 10 | 11 | 11 | 1000243-8 | FERRULE, ELECT. COND. |
| 10 | 12 | 11 | 1000242-7 | FERRULE, ELECT. COND. |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A |
| | | | SCALE - NONE | REV LTR + |
| | | | 1900998 | |
| | | | SHEET 5 OF 13 | |

| CABLE W-58 | | | | | | | | | | | | | | |
|--|----------|---|----------------------|---------------|-------------------|---------|----------------------|---------------|-------------------|---|----------|---|---|---|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| NUMBER | ITEM NO. | 2 | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | | | | |
| | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | ITEM NO. | 1 | 2 | 3 |
| A 1 | 1 | | P1-A | 22N | 27 | | P3- 91 | 22N | 22 | | | | | |
| A 2 | 3 | | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 2A | 1 | | SHLD A2 | 37N | | | E1 | 37N | | | | | | |
| A 2L | | | P1-C | 22N | 27 | | P3- 32 | 22N | 22 | | | | | |
| A 2R | | | P1-B | 22N | 27 | | P3- 44 | 22N | 22 | | | | | |
| A 3 | 2 | | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 3A | 1 | | SHLD A3 | 37N | | | E1 | 37N | | | | | | |
| A 3W | | | P1-D | 22N | 27 | | P3- 84 | 22N | 22 | | | | | |
| A 4 | 2 | | | 230 | 200 | 9 10 5 | | 230 | 200 | A 17 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 4A | 1 | | SHLD A4 | 37N | | | E1 | 37N | | | | | | |
| A 4W | | | P1-E | 22N | 27 | | P3- 54 | 22N | 22 | | | | | |
| A 5 | 1 | | P1-F | 22N | 27 | | P3- 26 | 22N | 22 | | | | | |
| A 6 | 1 | | P1-G | 22N | 27 | | P3- 83 | 22N | 22 | | | | | |
| A 7 | 3 | | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SIZE A | | | | |
| | | | | | | | | | | SCALE - NONE | | | | |
| | | | | | | | | | | REV LTR + | | | | |
| | | | | | | | | | | 1900998 | | | | |
| | | | | | | | | | | SHEET 7 OF 20 | | | | |

| CABLE W-58 | | | | | | | | | | | | | | |
|--|----------|---|----------------------|---------------|-------------------|---------|----------------------|---------------|-------------------|---|----------|---|---|---|
| CONDUCTOR | | | FROM | | | | | TO | | | | | | |
| NUMBER | ITEM NO. | 2 | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | CUT WIRE OR SHIELD | | TERMINATION SPEC. | NO. | | | | |
| | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | STRIP WIRE OR JACKET | CIRCUIT POINT | | | ITEM NO. | 1 | 2 | 3 |
| A 7A | 1 | | SHLD A7 | 37N | | | E1 | 37N | | | | | | |
| A 7L | | | P1-J | 22N | 27 | | P3- 12 | 22N | 22 | | | | | |
| A 7R | | | P1-H | 22N | 27 | | P3- 11 | 22N | 22 | | | | | |
| A 8 | 5 | | | | | A 29 | | | | | A 29 | | | |
| A 8L | | | P1-L | 22N | 27 | | P3- 40 | 22N | 22 | | | | | |
| A 8R | | | P1-K | 22N | 27 | | P3- 41 | 22N | 22 | | | | | |
| A 9 | 1 | | P1-N | 22N | 27 | | P3- 43 | 22N | 22 | | | | | |
| A 10 | 1 | | P1-P | 22N | 27 | | P3- 71 | 22N | 22 | | | | | |
| A 11 | 3 | | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 11A | 1 | | SHLD A11 | 37N | | | E1 | 37N | | | | | | |
| A 11L | | | P1-S | 22N | 27 | | P3- 53 | 22N | 22 | | | | | |
| A 11R | | | P1-R | 22N | 27 | | P3- 62 | 22N | 22 | | | | | |
| A 12 | 3 | | | 230 | 200 | 11 12 5 | | 230 | 200 | A 16 | 7A | | | |
| | | | | | | A 16 | | | | | | | | |
| A 12A | 1 | | SHLD A12 | 37N | | | E1 | 37N | | | | | | |
| A 12L | | | P1-U | 22N | 27 | | P3- 52 | 22N | 22 | | | | | |
| A 12R | | | P1-T | 22N | 27 | | P3- 61 | 22N | 22 | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | SIZE A | | | | |
| | | | | | | | | | | SCALE - NONE | | | | |
| | | | | | | | | | | REV LTR + | | | | |
| | | | | | | | | | | 1900998 | | | | |
| | | | | | | | | | | SHEET 8 OF 20 | | | | |



| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|--------|---|---------------|--------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 25W | | P1-H* | 22N | 27 | | P3- 98 | 22N | 22 | |
| A 26 | 1 | P1-I* | 22N | 27 | | P3- 42 | 22N | 22 | |
| A 27 | 5 | | | A 29 | | | | A 29 | |
| A 27L | | P1-K* | 22N | 27 | | P3- 69 | 22N | 22 | |
| A 27R | | P1-J* | 22N | 27 | | P3- 80 | 22N | 22 | |
| A 28 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | A 16 | | | | | |
| A 28A | 1 | SHLD A28 | 37N | | | E2 | 37N | | |
| A 28W | | P1-M* | 22N | 27 | | P3- 92 | 22N | 22 | |
| A 29 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | A 16 | | | | | |
| A 29A | 1 | SHLD A29 | 37N | | | E2 | 37N | | |
| A 29W | | P1-N* | 22N | 27 | | P3- 74 | 22N | 22 | |
| A 30 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | A 16 | | | | | |
| A 30A | 1 | SHLD A30 | 37N | | | E2 | 37N | | |
| A 30W | | P1-P* | 22N | 27 | | P3- 90 | 22N | 22 | |
| A 31 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | | | | | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 10 OF 20 | |

MIL 2085 - 4.83 WIR

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|---------|---|---------------|--------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 31A | 1 | SHLD A31 | 37N | | | E2 | 37N | | |
| A 31W | | P1-Q* | 22N | 27 | | P3-100 | 22N | 22 | |
| A 32 | 3 | | 330 | 300 | 11 12 5 | | 330 | 300 | A 16 7A |
| | | | | A 16 | | | | | |
| A 32A | 1 | SHLD A32 | 37N | | | E3 | 37N | | |
| A 32L | | P1-S* | 22N | 27 | | P3- 47 | 22N | 22 | |
| A 32R | | P1-R* | 22N | 27 | | P3- 56 | 22N | 22 | |
| A 33 | 3 | | 330 | 300 | 11 12 5 | | 330 | 300 | A 16 7A |
| | | | | A 16 | | | | | |
| A 33A | 1 | SHLD A33 | 37N | | | E3 | 37N | | |
| A 33L | | P1-U* | 22N | 27 | | P3- 57 | 22N | 22 | |
| A 33R | | P1-T* | 22N | 27 | | P3- 48 | 22N | 22 | |
| A 34 | 1 | P1-V* | 22N | 27 | | P3- 36 | 22N | 22 | |
| A 35 | 1 | P1-W* | 22N | 27 | | P3- 94 | 22N | 22 | |
| A 36 | 4 | | 330 | 300 | 13 14 5 | | 330 | 300 | A 15 7A |
| | | | | A 15 | | | | | |
| A 36A | 1 | SHLD A36 | 37N | | | E3 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 11 OF 20 | |

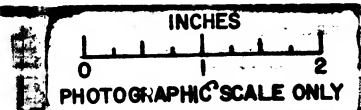
MIL 2085 - 4.83 WIR

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|--------|---|---------------|-------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 13 | 1 | P1-V | 22N | 27 | | P3- 1 | 22N | 22 | |
| A 14 | 1 | P1-W | 22N | 27 | | P3- 60 | 22N | 22 | |
| A 15 | 1 | P1-X | 22N | 27 | | P3- 2 | 22N | 22 | |
| A 16 | 1 | P1-Y | 22N | 27 | | P3- 96 | 22N | 22 | |
| A 17 | 1 | P1-Z | 22N | 27 | | P3- 95 | 22N | 22 | |
| A 18 | 1 | P1-A* | 22N | 27 | | E4 | 37N | | |
| A 19 | 1 | P1-B* | 22N | 27 | | P3- 93 | 22N | 22 | |
| A 20 | 1 | P1-C* | 22N | 27 | | P3- 51 | 22N | 22 | |
| A 21 | 1 | P1-D* | 22N | 27 | | P3-106 | 22N | 22 | |
| A 22 | 1 | P1-E* | 22N | 27 | | P3- 77 | 22N | 22 | |
| A 23 | 1 | P1-F* | 22N | 27 | | P3- 65 | 22N | 22 | |
| A 24 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | A 16 | | | | | |
| A 24A | 1 | SHLD A24 | 37N | | | E2 | 37N | | |
| A 24W | | P1-G* | 22N | 27 | | P3- 85 | 22N | 22 | |
| A 25 | 2 | | 280 | 250 | 9 10 5 | | 280 | 250 | A 17 7A |
| | | | | A 16 | | | | | |
| A 25A | 1 | SHLD A25 | 37N | | | E2 | 37N | | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 9 OF 20 | |

MIL 2085 - 4.83 WIR

| CONDUCTOR | | FROM | | | | TO | | | |
|--|----------|----------------------|---------------|-------------------|---------|---|---------------|--------------------------|---------|
| INDIVIDUAL LENGTH | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | | CUT WIRE OR SHIELD | | TERMINATION SPEC. | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | NO. |
| A 36L | | P1-Y* | 22N | 27 | | P3- 17 | 22N | 22 | |
| A 36R | | P1-X* | 22N | 27 | | P3- 3 | 22N | 22 | |
| A 36Y | | P1-Z* | 22N | 27 | | P3- 16 | 22N | 22 | |
| A 37 | 3 | | 330 | 300 | 11 12 5 | | 330 | 300 | A 16 7A |
| | | | | A 16 | | | | | |
| A 37A | 1 | SHLD A37 | 37N | | | E3 | 37N | | |
| A 37L | | P1-BB | 22N | 27 | | P3- 27 | 22N | 22 | |
| A 37R | | P1-AA | 22N | 27 | | P3- 13 | 22N | 22 | |
| A 38 | 4 | | 330 | 300 | 13 14 5 | | 330 | 300 | A 15 7A |
| | | | | A 15 | | | | | |
| A 38A | 1 | SHLD A38 | 37N | | | E3 | 37N | | |
| A 38L | | P1-DD | 22N | 27 | | P3- 6 | 22N | 22 | |
| A 38R | | P1-CC | 22N | 27 | | P3- 20 | 22N | 22 | |
| A 38Y | | P1-EE | 22N | 27 | | P3- 7 | 22N | 22 | |
| A 39 | 4 | | 330 | 300 | 13 14 5 | | 330 | 300 | A 15 7A |
| | | | | A 15 | | | | | |
| A 39A | 1 | SHLD A39 | 37N | | | E3 | 37N | | |
| A 39L | | P1-GG | 22N | 27 | | P3- 5 | 22N | 22 | |
| 1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | 1900998 | |
| 2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | SCALE - NONE | | REV LTR + SHEET 12 OF 20 | |

MIL 2085 - 4.83 WIR



CJK

CABLE W-58

1900998

| CONDUCTOR | | FROM | | | | | | | | | | TO | | | | | | | | | | |
|-------------------|---|------|----------------------|-----|-----|----|------|-------------------|--|--|--|--------|----------------------|-----|------|----|--|-------------------|--|--|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | |
| NUMBER | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | | CIRCUIT POINT | | | | |
| A 43R | | | P2-D | 22N | 28 | | | | | | | P3- 24 | 22N | 22 | | | | | | | | |
| A 44 | 3 | | | 230 | 200 | 11 | 12 | 5 | | | | | 230 | 200 | A 16 | 7A | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | |
| A 44A | 1 | | SHLD A44 | 37N | | | | | | | | E5 | 37N | | | | | | | | | |
| A 44L | | | P2-G | 22N | 28 | | | | | | | P3- 34 | 22N | 22 | | | | | | | | |
| A 44R | | | P2-F | 22N | 28 | | | | | | | P3- 35 | 22N | 22 | | | | | | | | |
| A 45 | 3 | | | 230 | 200 | 11 | 12 | 5 | | | | | 230 | 200 | A 16 | 7A | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | |
| A 45A | 1 | | SHLD A45 | 37N | | | | | | | | E5 | 37N | | | | | | | | | |
| A 45L | | | P2-J | 22N | 28 | | | | | | | P3- 33 | 22N | 22 | | | | | | | | |
| A 45R | | | P2-H | 22N | 28 | | | | | | | P3- 19 | 22N | 22 | | | | | | | | |
| A 46 | 1 | | P2-K | 22N | 28 | | | | | | | P3- 99 | 22N | 22 | | | | | | | | |
| A 47 | 3 | | | 280 | 250 | 11 | 12 | 5 | | | | | 280 | 250 | A 16 | 7A | | | | | | |
| | | | | | | | A 16 | | | | | | | | | | | | | | | |
| A 47A | 1 | | SHLD A47 | 37N | | | | | | | | E6 | 37N | | | | | | | | | |
| A 47L | | | P2-M | 22N | 28 | | | | | | | P3- 64 | 22N | 22 | | | | | | | | |
| A 47R | | | P2-L | 22N | 28 | | | | | | | P3- 63 | 22N | 22 | | | | | | | | |
| A 48 | 2 | | | 280 | 250 | 9 | 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | | | | | |

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2

THE STD CONDUCTOR TERMINATION FIGURES ARE PER
DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE
A

1900998

SCALE - NONE

REV LTR +

SHEET 14 OF 20

CABLE W-58

1900998

| CONDUCTOR | | | FROM | | | | | TO | | | | | | | | | |
|--|---|--|----------------------|--|-----|-------------------|----------|-----|--|---|----------------------|---------|-------------------|----------------|----------|--|--|
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | | CUT WIRE OR SHIELD | | | TERMINATION SPEC. | | NO. | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | T | | | | | | STRIP WIRE OR JACKET | | T | | | | |
| NUMBER | | | CIRCUIT POINT | | | | ITEM NO. | | | | CIRCUIT POINT | | | | ITEM NO. | | |
| | | | | | | | A 16 | | | | | | | | | | |
| A 48A | 1 | | SHLD A48 | | 37N | | | | | E6 | | 37N | | | | | |
| A 48W | | | P2-N | | 22N | 28 | | | | P3- 29 | | 22N | 22 | | | | |
| A 49 | 1 | | P2-R | | 22N | 28 | | | | P3- 14 | | 22N | 22 | | | | |
| A 50 | 1 | | P2-S | | 22N | 28 | | | | P3- 50 | | 22N | 22 | | | | |
| A 51 | 1 | | P2-T | | 22N | 28 | | | | P3- 21 | | 22N | 22 | | | | |
| A 52 | 1 | | P2-U | | 22N | 28 | | | | P3- 70 | | 22N | 22 | | | | |
| A 53 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | 280 250 | A 17 | 7A | | | |
| | | | | | | | A 16 | | | | | | | | | | |
| A 53A | 1 | | SHLD A53 | | 37N | | | | | E6 | | 37N | | | | | |
| A 53W | | | P2-V | | 22N | 28 | | | | P3- 82 | | 22N | 22 | | | | |
| A 54 | 1 | | P2-W | | 22N | 28 | | | | P3- 58 | | 22N | 22 | | | | |
| A 55 | 1 | | P2-X | | 22N | 28 | | | | P3- 59 | | 22N | 22 | | | | |
| A 56 | 1 | | P2-Y | | 22N | 28 | | | | P3- 66 | | 22N | 22 | | | | |
| A 57 | 1 | | P2-Z | | 22N | 28 | | | | P3- 78 | | 22N | 22 | | | | |
| A 58 | 1 | | P2-A* | | 22N | 28 | | | | E9 | | 37N | | | | | |
| A 59 | 1 | | P2-B* | | 22N | 28 | | | | P3- 81 | | 22N | 22 | | | | |
| A 60 | 1 | | P2-C* | | 22N | 28 | | | | P3- 79 | | 22N | 22 | | | | |
| | | | | | | | | | | SIZE | | 1900998 | | | | | |
| | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | A | | | | | |
| THE STD CONDUCTOR TERMINATION FIGURES ARE PER | | | | | | | | | | SCALE - NONE | | REV LTR | | SHEET 15 OF 20 | | | |
| DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | | | | | | |

| GJK | | CABLE W-58 | | | | | | | | | | + | | 1900998 | | | | | | | | |
|---|---|------------|----------------------|-----|-----|------|----|-------------------|--|--|--|--|----------------------|---------------|---------|----------------|--|-------------------|--|--|--|--|
| CONDUCTOR | | | FROM | | | | | | | | | | TO | | | | | | | | | |
| INDIVIDUAL LENGTH | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | | CUT WIRE OR SHIELD | | | | | TERMINATION SPEC. | | | | |
| ITEM NO. | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | | STRIP WIRE OR JACKET | | | | | ITEM NO. | | | | |
| NUMBER | | | CIRCUIT POINT | | | | | | | | | | CIRCUIT POINT | | | | | | | | | |
| A 39R | | | P1-FF | 22N | | 27 | | | | | | P3- 4 | 22N | | 22 | | | | | | | |
| A 39Y | | | P1-HH | 22N | | 27 | | | | | | P3- 18 | 22N | | 22 | | | | | | | |
| A 40 | 2 | | | 230 | 200 | 9 | 10 | 5 | | | | | 230 | 200 | A 17 | 7A | | | | | | |
| | | | | | | A 16 | | | | | | | | | | | | | | | | |
| A 40A | 1 | | SHLD A40 | 37N | | | | | | | | E5 | 37N | | | | | | | | | |
| A 40W | | | P2-A | 22N | | 28 | | | | | | P3- 39 | 22N | | 22 | | | | | | | |
| A 41 | 2 | | | 230 | 200 | 9 | 10 | 5 | | | | | 230 | 200 | A 17 | 7A | | | | | | |
| | | | | | | A 16 | | | | | | | | | | | | | | | | |
| A 41A | 1 | | SHLD A41 | 37N | | | | | | | | E5 | 37N | | | | | | | | | |
| A 41W | | | P2-B | 22N | | 28 | | | | | | P3- 73 | 22N | | 22 | | | | | | | |
| A 42 | 2 | | | 230 | 200 | 9 | 10 | 5 | | | | | 230 | 200 | A 17 | 7A | | | | | | |
| | | | | | | A 16 | | | | | | | | | | | | | | | | |
| A 42A | 1 | | SHLD A42 | 37N | | | | | | | | E5 | 37N | | | | | | | | | |
| A 42W | | | P2-C | 22N | | 28 | | | | | | P3- 10 | 22N | | 22 | | | | | | | |
| A 43 | 3 | | | 230 | 200 | 11 | 12 | 5 | | | | | 230 | 200 | A 16 | 7A | | | | | | |
| | | | | | | A 16 | | | | | | | | | | | | | | | | |
| A 43A | 1 | | SHLD A43 | 37N | | | | | | | | E5 | 37N | | | | | | | | | |
| A 43L | | | P2-E | 22N | | 28 | | | | | | P3- 23 | 22N | | 22 | | | | | | | |
| <div><div>1</div><div>2</div></div> <div>THE STD CONDUCTOR TERMINATION FIGURES ARE PER DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.</div> | | | | | | | | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | SIZE A | 1900998 | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR | + | SHEET 13 OF 20 | | | | | | |
| MIL 2089 - 4-63 WIR | | | | | | | | | | | | | | | | | | | | | | |

GJK

CABLE W-58

+

1900998

| CONDUCTOR | | | | FROM | | | | | | | | TO | | | | | | | |
|---|---|--|--|----------------------|-----|-----|------|-------------------|--|--|--|----------------------|-----|---------|------|-------------------|--|----------------|--|
| INDIVIDUAL LENGTH | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | | CUT WIRE OR SHIELD | | | | TERMINATION SPEC. | | | |
| ITEM NO. | | | | STRIP WIRE OR JACKET | | | | NO. | | | | STRIP WIRE OR JACKET | | | | NO. | | | |
| NUMBER | | | | CIRCUIT POINT | | | | ITEM NO. | | | | CIRCUIT POINT | | | | ITEM NO. | | | |
| A 61 | 1 | | | P2-D* | 22N | | 28 | | | | | P3- 68 | 22N | | 22 | | | | |
| A 62 | 1 | | | P2-E* | 22N | | 28 | | | | | P3- 67 | 22N | | 22 | | | | |
| A 63 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | | |
| | | | | | | | A 16 | | | | | | | | | | | | |
| A 63A | 1 | | | SHLD A63 | 37N | | | | | | | E6 | 37N | | | | | | |
| A 63W | | | | P2-F* | 22N | | 28 | | | | | P3- 89 | 22N | | 22 | | | | |
| A 64 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | | |
| | | | | | | | A 16 | | | | | | | | | | | | |
| A 64A | 1 | | | SHLD A64 | 37N | | | | | | | E6 | 37N | | | | | | |
| A 64W | | | | P2-G* | 22N | | 28 | | | | | P3-104 | 22N | | 22 | | | | |
| A 65 | 2 | | | | 280 | 250 | 9 10 | 5 | | | | | 280 | 250 | A 17 | 7A | | | |
| | | | | | | | A 16 | | | | | | | | | | | | |
| A 65A | 1 | | | SHLD A65 | 37N | | | | | | | E6 | 37N | | | | | | |
| A 65W | | | | P2-H* | 22N | | 28 | | | | | P3- 97 | 22N | | 22 | | | | |
| A 66 | 2 | | | | 330 | 300 | 9 10 | 5 | | | | | 330 | 300 | A 17 | 7A | | | |
| | | | | | | | A 16 | | | | | | | | | | | | |
| A 66A | 1 | | | SHLD A66 | 37N | | | | | | | E7 | 37N | | | | | | |
| A 66W | | | | P2-J* | 22N | | 28 | | | | | P3- 86 | 22N | | 22 | | | | |
| <div>1</div> THE STD CONDUCTOR TERMINATION FIGURES ARE PER <div>2</div> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS. | | | | | | | | | | | | SIZE | | 1900998 | | | | | |
| | | | | | | | | | | | | A | | | | | | | |
| | | | | | | | | | | | | SCALE - NONE | | REV LTR | | + | | SHEET 16 OF 20 | |

MIL 3085 - 4-65 WIR

| CONDUCTOR | | INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION SPEC. | | NO. | |
|-----------|----------|----------------------|---------------|----------|----------------------|---------------|----------|----------------------|---------------|----------|----------------------|
| | | | | | | | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET |
| A 74A | 1 | SHLD A74 | 37N | | E7 | 37N | | | | | |
| A 74W | | P2-V* | 22N | 28 | P3-101 | 22N | 22 | | | | |
| A 75 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | | | | | | | | |
| A 75A | 1 | SHLD A75 | 37N | | E7 | 37N | | | | | |
| A 75W | | P2-W* | 22N | 28 | P3-76 | 22N | 22 | | | | |
| A 76 | 2 | | 380 | 350 | 9 10 | 5 | | 380 | 350 | A 17 | 7A |
| | | | | | | | | | | | |
| A 76A | 1 | SHLD A76 | 37N | | E8 | 37N | | | | | |
| A 76W | | P2-X* | 22N | 28 | P3-75 | 22N | 22 | | | | |
| A 77 | 2 | | 380 | 350 | 9 10 | 5 | | 380 | 350 | A 17 | 7A |
| | | | | | | | | | | | |
| A 77A | 1 | SHLD A77 | 37N | | E8 | 37N | | | | | |
| A 77W | | P2-Y* | 22N | 28 | P3-105 | 22N | 22 | | | | |
| A 78 | 2 | | 380 | 350 | 9 10 | 5 | | 380 | 350 | A 17 | 7A |
| | | | | | | | | | | | |
| A 78A | 1 | SHLD A78 | 37N | | E8 | 37N | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SIZE
A

1900998

SCALE - NONE

REV LTR +

SHEET 18 OF 20

| CONDUCTOR | | INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION SPEC. | | NO. | |
|-----------|----------|----------------------|---------------|----------|----------------------|---------------|----------|----------------------|---------------|----------|----------------------|
| | | | | | | | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET |
| A 67 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | | | | | | | | |
| A 67A | 1 | SHLD A67 | 37N | | E7 | 37N | | | | | |
| A 67W | | P2-K* | 22N | 28 | P3-102 | 22N | 22 | | | | |
| A 68 | 1 | P2-M* | 22N | 28 | P3-37 | 22N | 22 | | | | |
| A 69 | 1 | P2-N* | 22N | 28 | P3-30 | 22N | 22 | | | | |
| A 70 | 1 | P2-P* | 22N | 28 | P3-31 | 22N | 22 | | | | |
| A 71 | 1 | P2-R* | 22N | 28 | P3-55 | 22N | 22 | | | | |
| A 72 | 1 | P2-S* | 22N | 28 | P3-46 | 22N | 22 | | | | |
| A 72 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | | | | | | | | |
| A 72A | 1 | SHLD A72 | 37N | | E7 | 37N | | | | | |
| A 72W | | P2-T* | 22N | 28 | P3-88 | 22N | 22 | | | | |
| A 73 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |
| | | | | | | | | | | | |
| A 73A | 1 | SHLD A73 | 37N | | E7 | 37N | | | | | |
| A 73W | | P2-U* | 22N | 28 | P3-87 | 22N | 22 | | | | |
| A 74 | 2 | | 330 | 300 | 9 10 | 5 | | 330 | 300 | A 17 | 7A |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
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SCALE - NONE

REV LTR +

SHEET 17 OF 20

| CONDUCTOR | | INDIVIDUAL LENGTH | | FROM | | TO | | TERMINATION SPEC. | | NO. | |
|-----------|----------|----------------------|---------------|----------|----------------------|---------------|----------|----------------------|---------------|----------|----------------------|
| | | | | | | | | | | | |
| NUMBER | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET | CIRCUIT POINT | ITEM NO. | STRIP WIRE OR JACKET |
| A 78W | | P2-AA | 22N | 28 | P3-49 | 22N | 22 | | | | |
| A 79 | 2 | | 380 | 350 | 9 10 | 5 | | 380 | 350 | A 17 | 7A |
| | | | | | | | | | | | |
| A 79A | 1 | SHLD A79 | 37N | | E8 | 37N | | | | | |
| A 79W | | P2-BB | 22N | 28 | P3-38 | 22N | 22 | | | | |
| A 80 | 1 | P2-CC | 22N | 28 | P3-72 | 22N | 22 | | | | |
| A 81 | 1 | P2-DD | 22N | 28 | P3-25 | 22N | 22 | | | | |
| A 82 | 1 | E1 | 37N | | E4 | 37N | | | | | |
| A 83 | 1 | E2 | 37N | | E4 | 37N | | | | | |
| A 84 | 1 | E3 | 37N | | E4 | 37N | | | | | |
| A 85 | 1 | E5 | 37N | | E9 | 37N | | | | | |
| A 86 | 1 | E6 | 37N | | E9 | 37N | | | | | |
| A 87 | 1 | E7 | 37N | | E9 | 37N | | | | | |
| A 88 | 1 | E8 | 37N | | E9 | 37N | | | | | |

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
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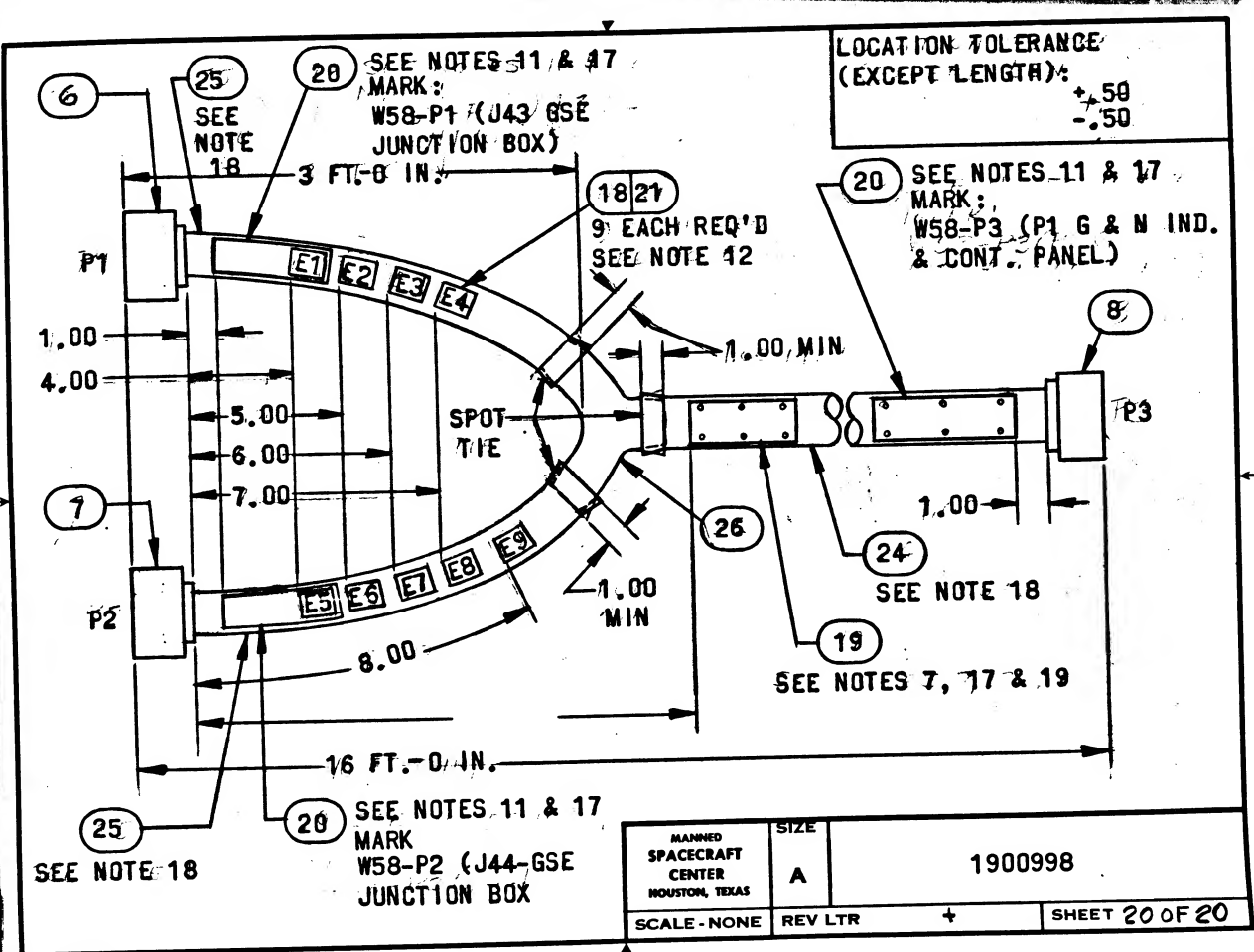
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SHEET 19 OF 20



SEE NOTE 18

20 SEE NOTES 11 & 17
MARK:
W58-P2 (J44-GSE
JUNCTION BOX)

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REV LTR +

SHEET 20 OF 20

